



Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

Equipment Authorization Measurements

FCC Identifier: IHET5DX1
Name of Grantee: Motorola, Inc
Equipment Class: Licensed Non-Broadcast Transmitter
Notes: SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC CFR Title 47	Description	Section	Compliant
2.1046	RF Output Power	A	Yes
2.1047	Modulation Characteristics	B	Yes
2.1049	Occupied Bandwidth	C	Yes
2.1051	Spurious Emissions at Antenna Terminals	D	Yes
2.1053	Field Strength of Spurious Radiation	E	Yes
2.1055	Frequency Stability	F	Yes

Measurements Performed by:

Motorola EMC Facility
5555 North Beach Street
Fort Worth, TX 76137
Authorized Testing Laboratory
FCC Test Firm Registration No. 90809

Test Engineer

FCC/Package Coordination





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SECTION A

RF Output Power - 47CFR2.1046

Channel	Tune Frequency (MHz)	Modulation	Power Level (W)	Power Level (dBm)	Power Level Measured (dBm)	IS-97 Limit (dB)	Pass/Fail
775	893.25	1X-DO-16QAM	120	50.8	51.12	+2/-4	Pass
775	893.25	1X-DO-8PSK	120	50.8	51.03	+2/-4	Pass
1015	869.76	1X-DO-16QAM	120	50.8	50.80	+2/-4	Pass
1015	869.76	1X-DO-8PSK	120	50.8	50.83	+2/-4	Pass
775	893.25	1X-DO-16QAM	40	46.0	46.23	+2/-4	Pass
775	893.25	1X-DO-8PSK	40	46.0	46.20	+2/-4	Pass
1015	869.76	1X-DO-16QAM	40	46.0	46.13	+2/-4	Pass
1015	869.76	1X-DO-8PSK	40	46.0	46.16	+2/-4	Pass
775	893.25	1X-DO-16QAM	.45	26.5	26.44	+2/-4	Pass
775	893.25	1X-DO-8PSK	.45	26.5	26.45	+2/-4	Pass
1015	869.76	1X-DO-16QAM	.45	26.5	26.94	+2/-4	Pass
1015	869.76	1X-DO-8PSK	.45	26.5	26.98	+2/-4	Pass
775	893.31	1X-QPSK	120	50.8	50.74	+2/-4	Pass
1013	869.70	1X-QPSK	120	50.8	50.93	+2/-4	Pass
775	893.31	1X-QPSK	45	46.5	46.31	+2/-4	Pass
1013	869.70	1X-QPSK	45	46.5	46.34	+2/-4	Pass
775	893.31	1X-QPSK	.45	26.5	26.59	+2/-4	Pass
1013	869.70	1X-QPSK	.45	26.5	26.86	+2/-4	Pass



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Summary of Radiated RF Measurements *Worst Case Radiated RF Spur Level*

Transmit Channel	Power Level (W)	Spur Freq. (GHz)	Spur Level Measured (dB μ V/meter)	Spur Level Measured (dBm*)	FCC Max Limit (dBm)	Pass/Fail
1013	120	4.3485	64.35	-30.88	-13.0	Pass

Summary of Conducted RF Measurements *Worst Case Conducted RF Spur Level*

Transmit Channel	Power Level (W)	Freq. (MHz)	Spur Level Measured (dBm)	FCC Max Limit (dBm)	Pass/Fail
1013	120	870.4065	-16.94	-13	Pass



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SECTION B

Modulation Characteristics - 47CFR2.1047

Summary of Modulation Characteristics

Channel	Tune Frequency (MHz)	Modulation	Power Level (W)	RHO Measured	RHO Spec	Pass/Fail
775	893.25	1X-DO-16QAM	120	.99738	>0.912	Pass
775	893.25	1X-DO-8PSK	120	.99738	>0.912	Pass
1015	869.76	1X-DO-16QAM	120	.99719	>0.912	Pass
1015	869.76	1X-DO-8PSK	120	.99721	>0.912	Pass
775	893.25	1X-DO-16QAM	40	.99730	>0.912	Pass
775	893.25	1X-DO-8PSK	40	.99730	>0.912	Pass
1015	869.76	1X-DO-16QAM	40	.99720	>0.912	Pass
1015	869.76	1X-DO-8PSK	40	.99726	>0.912	Pass
775	893.25	1X-DO-16QAM	.45	.99730	>0.912	Pass
775	893.25	1X-DO-8PSK	.45	.99735	>0.912	Pass
1015	869.76	1X-DO-16QAM	.45	.98650	>0.912	Pass
1015	869.76	1X-DO-8PSK	.45	.98657	>0.912	Pass
775	893.31	1X-QPSK	120	.98432	>0.912	Pass
1013	869.70	1X-QPSK	120	.98430	>0.912	Pass
775	893.31	1X-QPSK	45	.98430	>0.912	Pass
1013	869.70	1X-QPSK	45	.98359	>0.912	Pass
775	893.31	1X-QPSK	.45	.98116	>0.912	Pass
1013	869.70	1X-QPSK	.45	.97804	>0.912	Pass

Note: The BTS was configured for maximum power out of 50.8 dBm, mid power of 46.0 (1X-DO) and 46.5 (1X) dBm, and minimum power of 26.5dBm respectively. The output power was set respectively to 120W, 45W,40W and 450mW using a power meter.



SECTION C

Occupied Bandwidth - 47CFR2.1049

Summary of Occupied Bandwidth

Channel	Frequency (MHz)	Modulation	Power Level (dBm)	Measured (MHz)	FCC Limit (MHz)	Pass/Fail
775	893.25	1X-DO-16QAM	51.12	1.2692	1.30	Pass
775	893.25	1X-DO-8PSK	51.03	1.2701	1.30	Pass
1015	869.76	1X-DO-16QAM	50.80	1.2719	1.30	Pass
1015	869.76	1X-DO-8PSK	50.83	1.2704	1.30	Pass
775	893.25	1X-DO-16QAM	46.23	1.2686	1.30	Pass
775	893.25	1X-DO-8PSK	46.20	1.2720	1.30	Pass
1015	869.76	1X-DO-16QAM	46.13	1.2710	1.30	Pass
1015	869.76	1X-DO-8PSK	46.16	1.2687	1.30	Pass
775	893.25	1X-DO-16QAM	26.44	1.2692	1.30	Pass
775	893.25	1X-DO-8PSK	26.45	1.2715	1.30	Pass
1015	869.76	1X-DO-16QAM	26.94	1.2697	1.30	Pass
1015	869.76	1X-DO-8PSK	26.98	1.2722	1.30	Pass
775	893.31	1X-QPSK	50.74	1.2215	1.30	Pass
1013	869.70	1X-QPSK	50.93	1.2210	1.30	Pass
775	893.31	1X-QPSK	46.31	1.2211	1.30	Pass
1013	869.70	1X-QPSK	46.34	1.2201	1.30	Pass
775	893.31	1X-QPSK	26.59	1.2224	1.30	Pass
1013	869.70	1X-QPSK	26.86	1.2205	1.30	Pass

Note: The BTS was configured for maximum power out of 50.8 dBm, mid power of 46.5(1X) and 46.0(1X-DO) dBm, and minimum power of 26.5dBm respectively. The output power was set respectively to 120W, 45W, 40W, and 450mW using a power meter.

The following formula is used to obtain the correct power reference point from which the OBW of the CDMA signal is obtained. See example calculation below:

$$\text{Power (measured in 30kHz bandwidth)} + 10 \log (1.2288 \text{ MHz}/30\text{kHz})$$

The occupied bandwidth is measured in a 30 kHz resolution bandwidth. Results are summarized above.





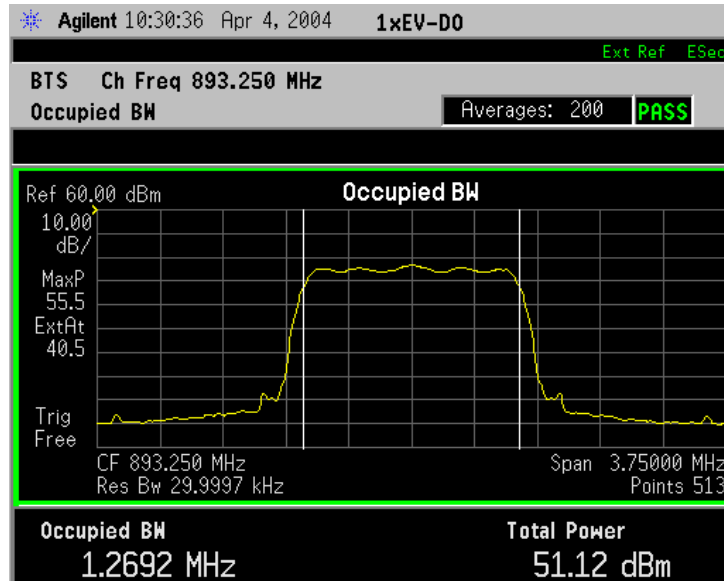
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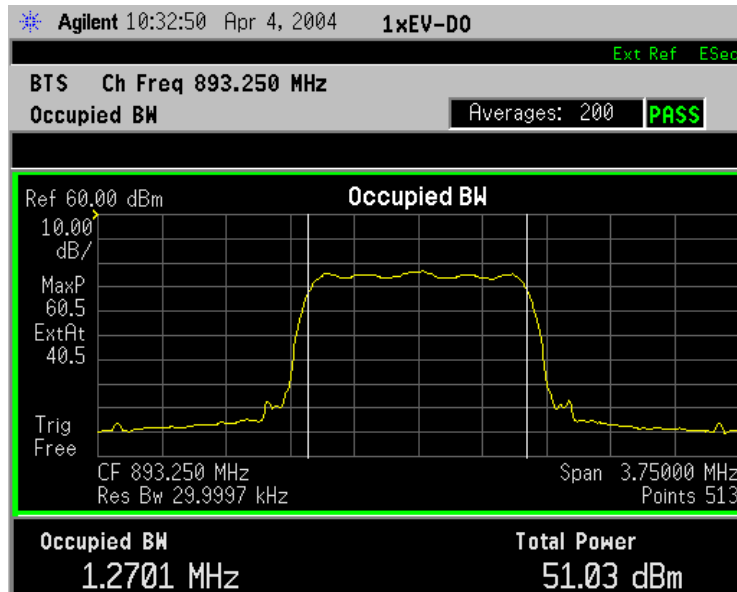
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Occupied Bandwidth - 120W – 1X-DO



Channel 775 – 893.25 MHz – 16QAM



Channel 775 – 893.25 MHz – 8PSK

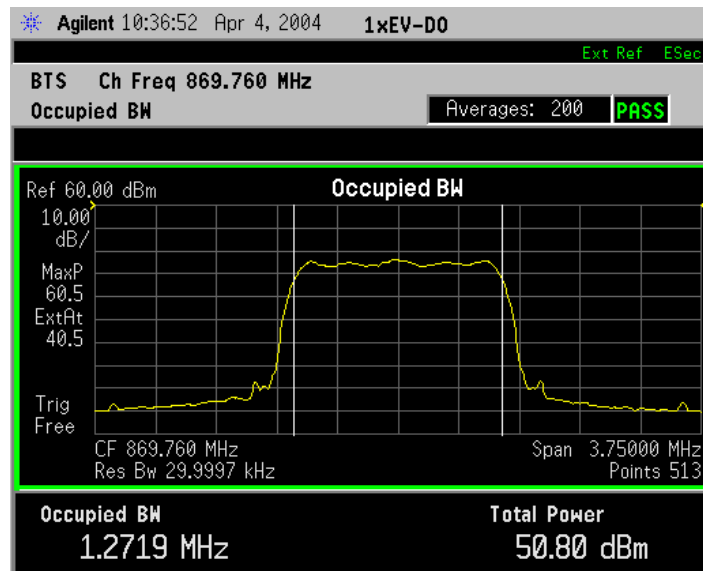


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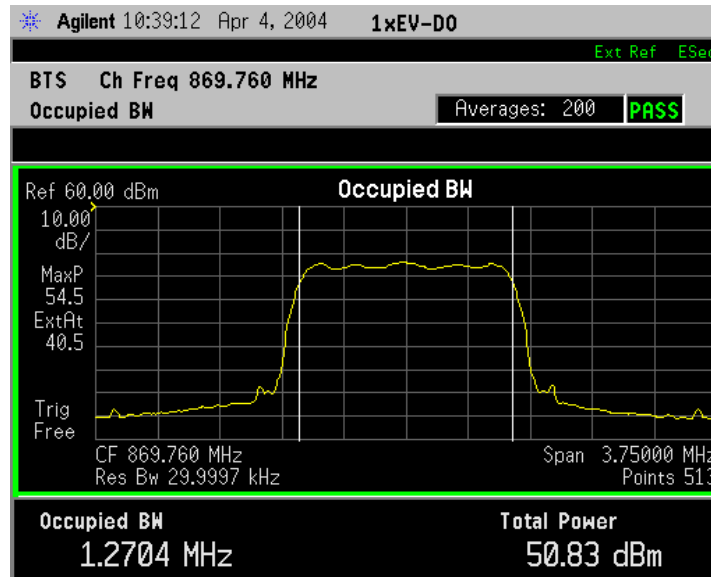
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Occupied Bandwidth - 120W – 1X-DO



Channel 1015 – 869.76 MHz – 16QAM



Channel 1015 – 869.76 MHz – 8PSK

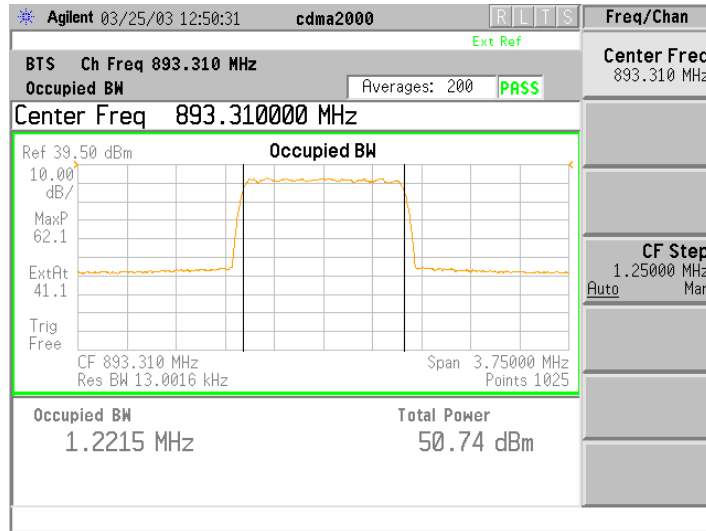


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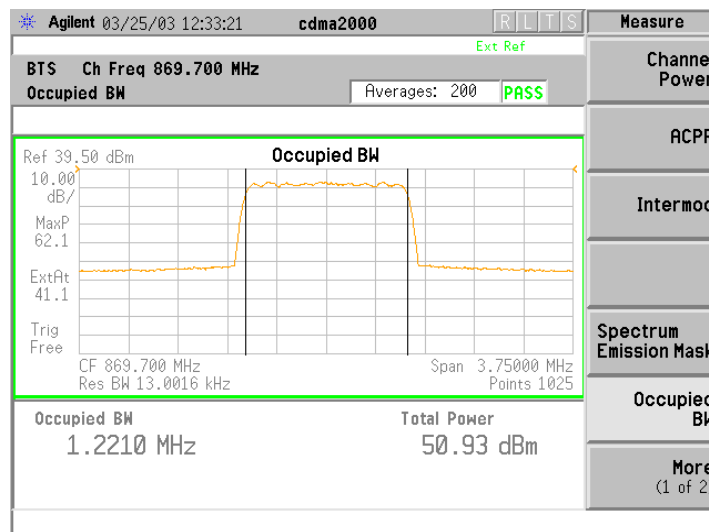
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Occupied Bandwidth - 120W – 1X



Channel 777 – 893.31 MHz



Channel 1013 – 869.7 MHz

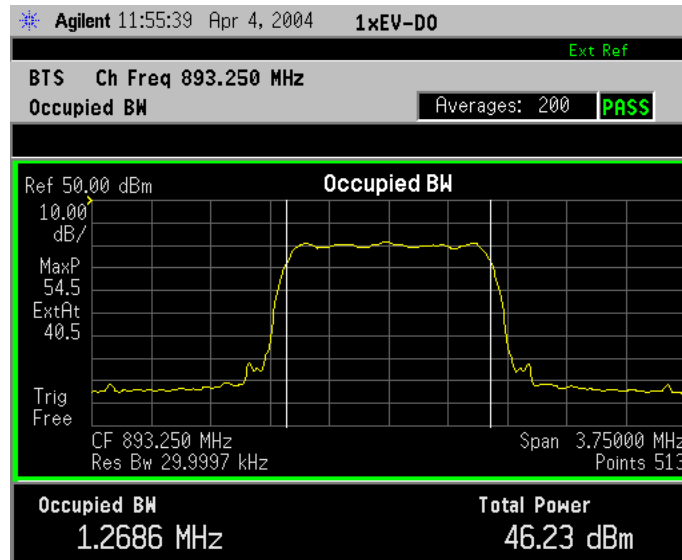


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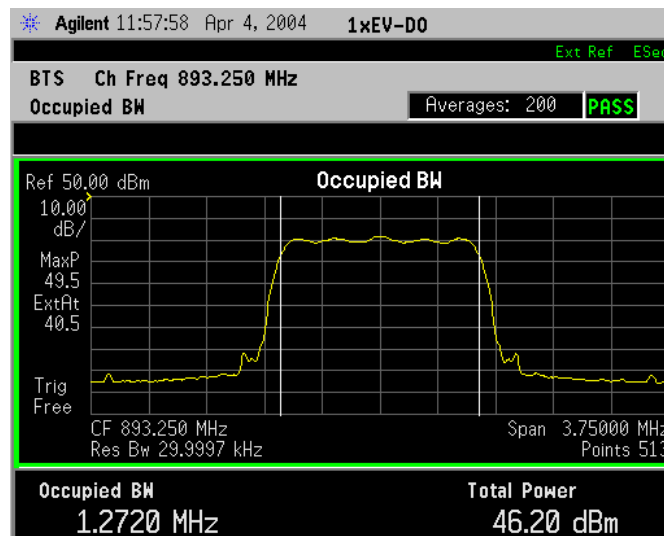
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Occupied Bandwidth - 40W – 1X-DO



Channel 775 – 893.25 MHz – 16QAM



Channel 775 – 893.25 MHz – 8PSK

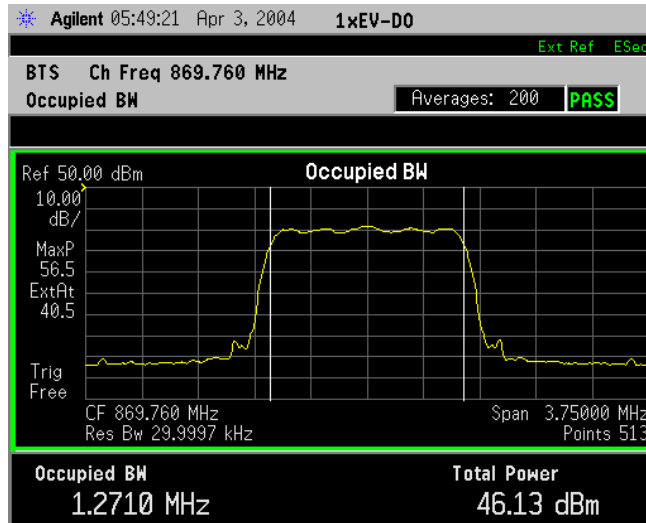


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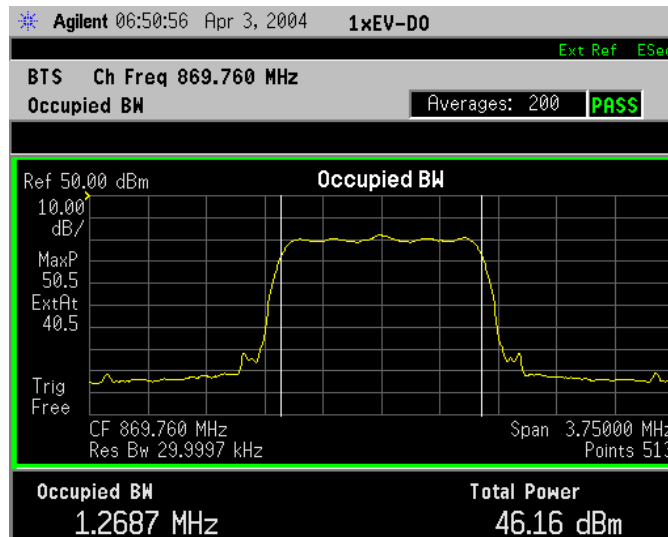
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Occupied Bandwidth - 40W – 1X-DO



Channel 1015 – 869.76 MHz – 16QAM



Channel 1015 – 869.76 MHz – 8PSK

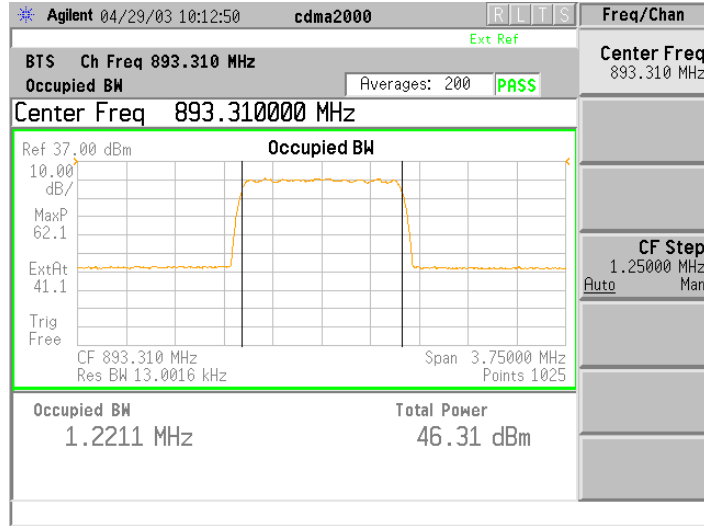


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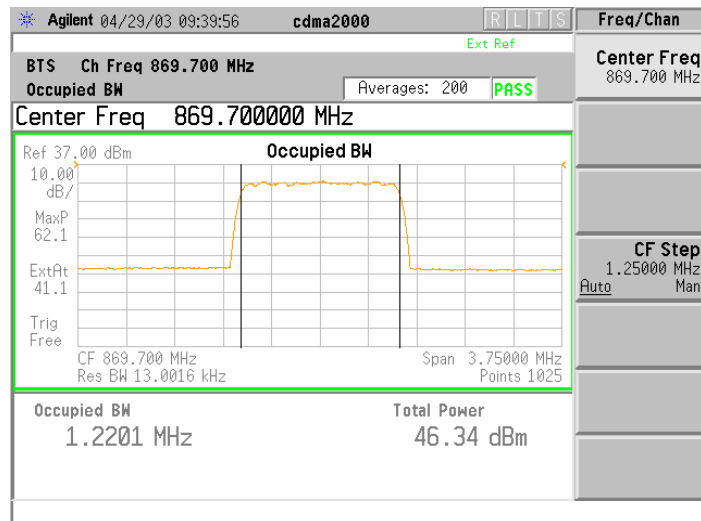
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Occupied Bandwidth - 45W – 1X



Channel 777 – 893.31 MHz



Channel 1013 – 869.7 MHz

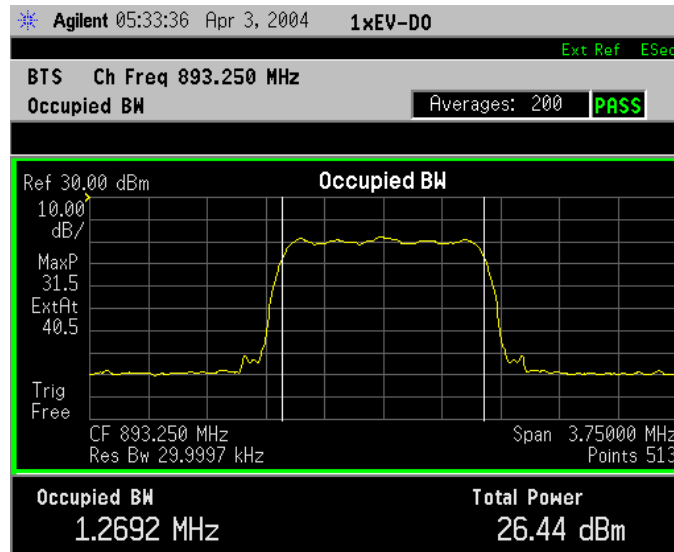


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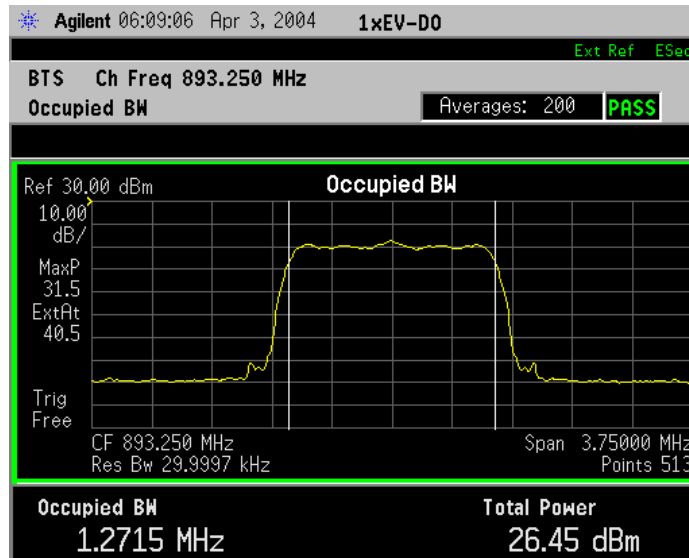
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Occupied Bandwidth – .45W – 1X-DO



Channel 775 – 893.25 MHz – 16QAM



Channel 775 – 893.25 MHz – 8PSK



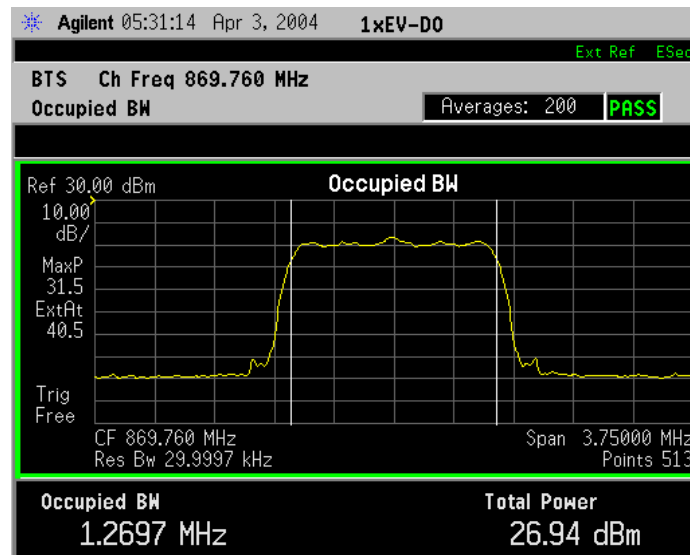
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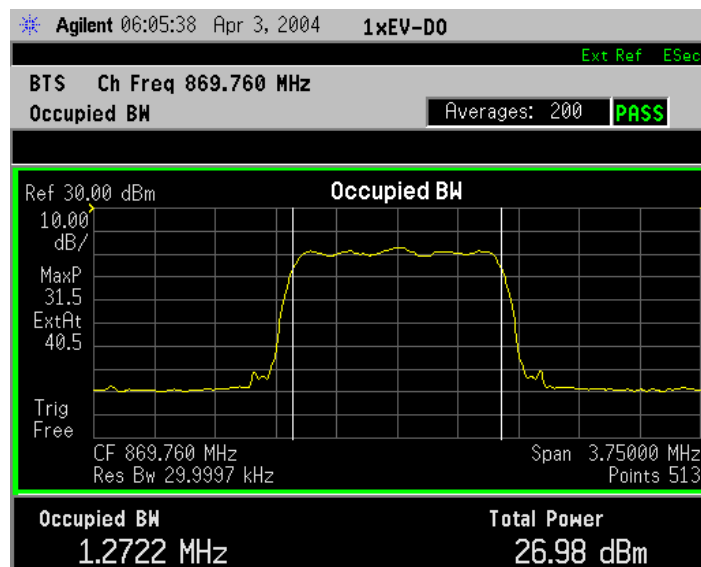
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Occupied Bandwidth – .45W – 1X-DO



Channel 1015 – 869.76 MHz – 16QAM



Channel 1015 – 869.76 MHz – 8 PSK



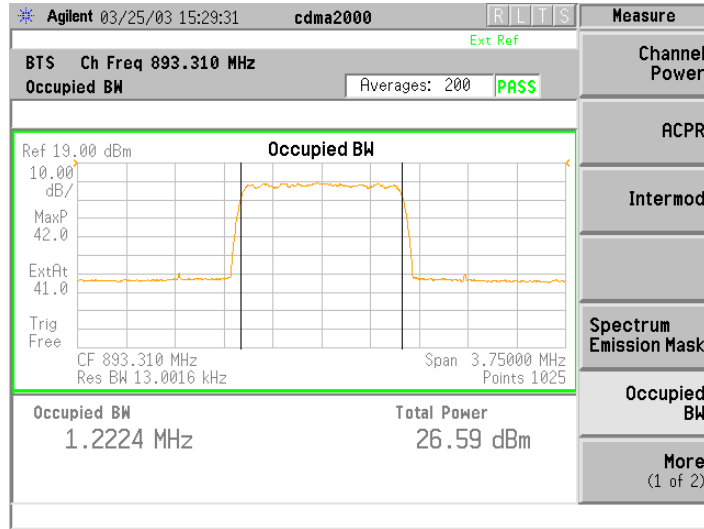
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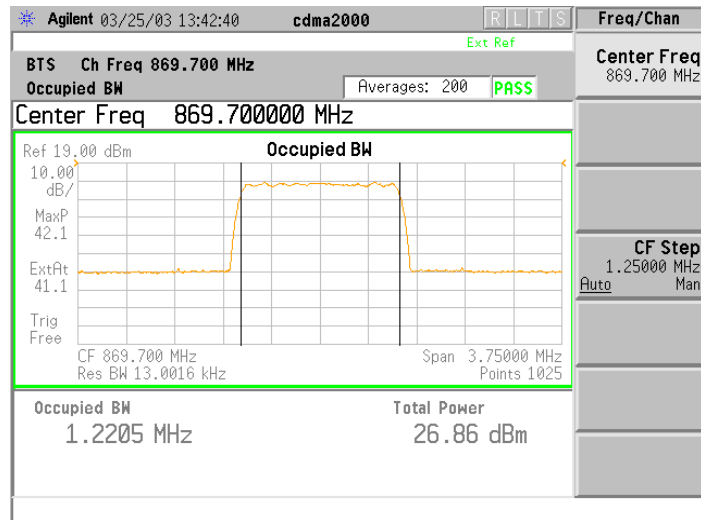
FCC ID: IHET5DX1

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Occupied Bandwidth – .45W – 1X



Channel 775 – 893.31 MHz



Channel 1013 – 869.76 MHz



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SECTION D

Spurious Emissions at Antenna Terminal - 47 CFR 2.1051

Summary of Worst Case Spurious Emissions at Antenna Terminal

Channel	Modulation	Freq. (MHz)	Spur Level Measured (dBm)	FCC Max Limit (dBm)	Pass/Fail
775	1X-DO-16QAM	892.5000	-18.32	-13	Pass
775	1X-DO-8PSK	892.5000	-18.33	-13	Pass
1015	1X-DO-16QAM	869.0100	-19.19	-13	Pass
1015	1X-DO-8PSK	869.0100	-19.19	-13	Pass
777	1X-QPSK	894.0065	-17.69	-13	Pass
1013	1X-QPSK	870.4065	-16.94	-13	Pass

FCC Max. Limit Per 47 CFR 22.917:

- = Transmitted Power (10 Log₁₀ (P_{watt})) - (43 + 10 Log₁₀ (P_{watt})) dBW
- = 10 Log₁₀ (P_{watt}) - (43 + 10 Log₁₀ (P_{watt})) dBW
- = -43 dBW
- = -13 dBm



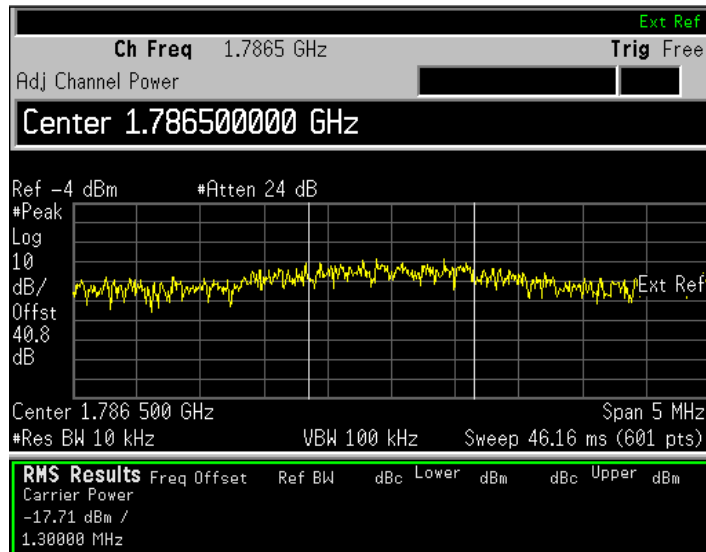
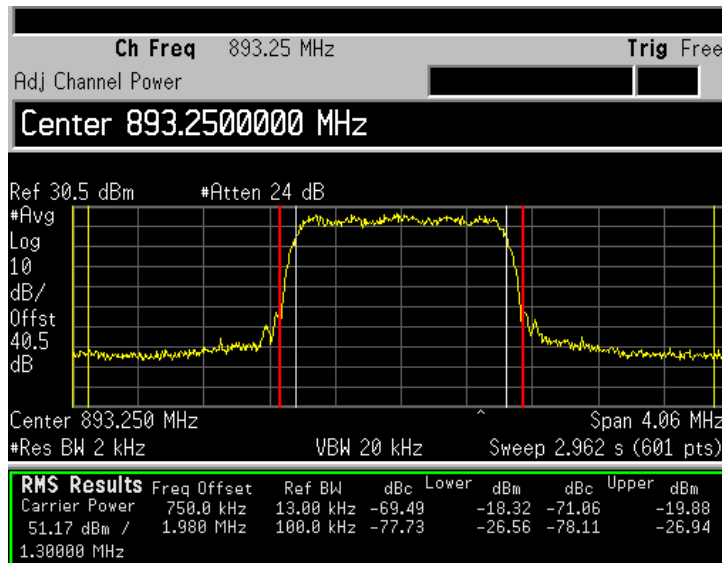
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Spurious Emissions at Antenna Terminal – 120W

Channel 775 – 893.25 MHz – 16QAM

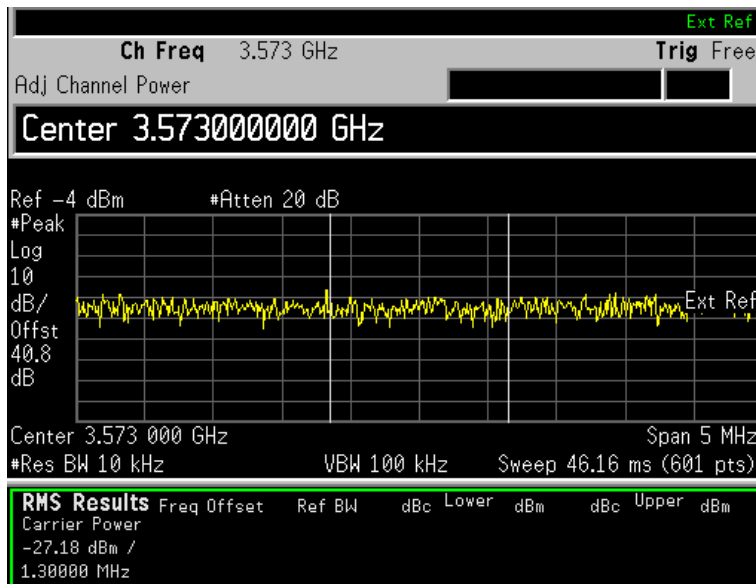
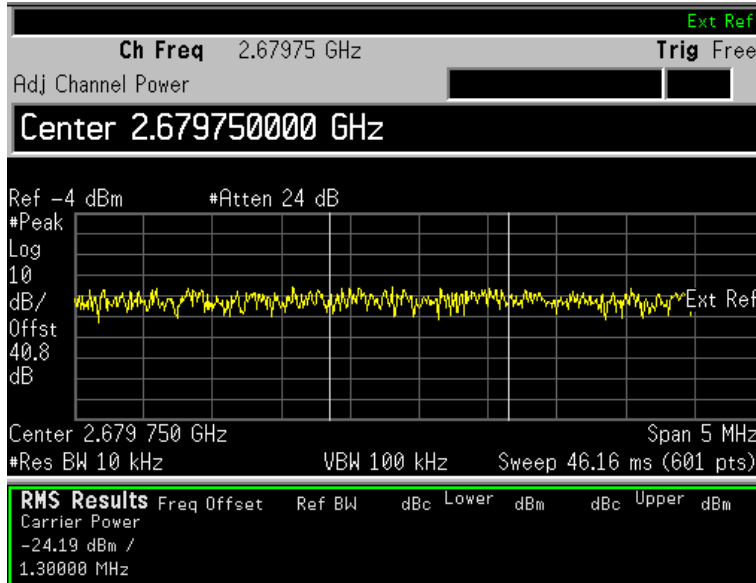




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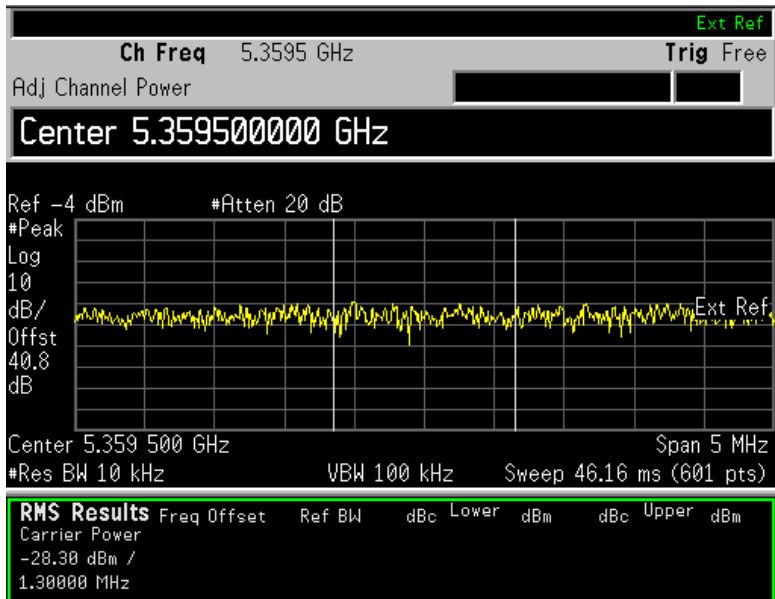
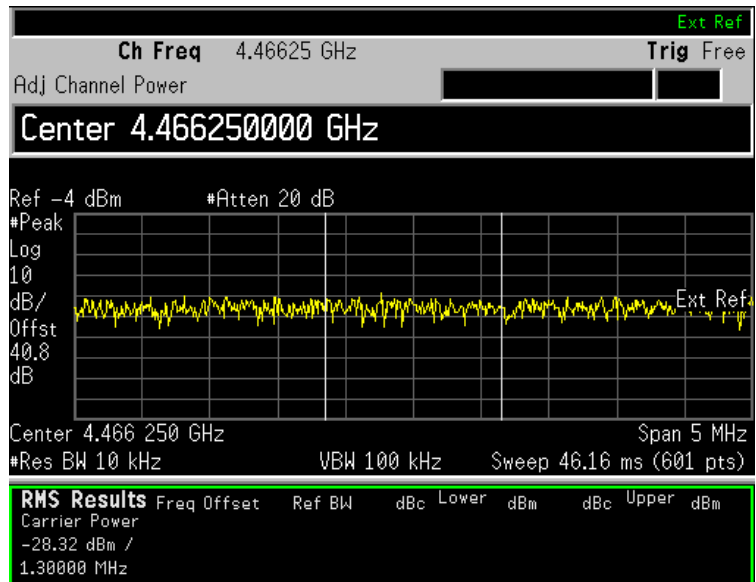




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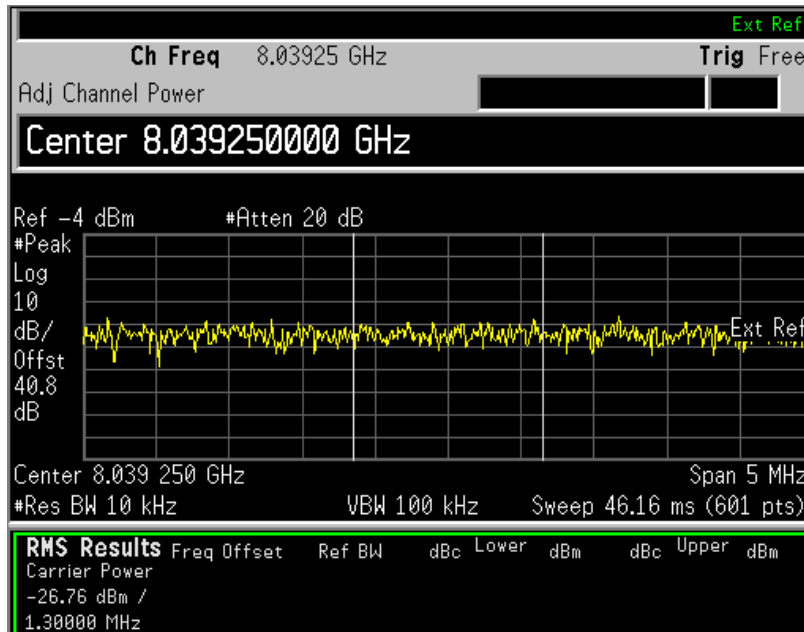
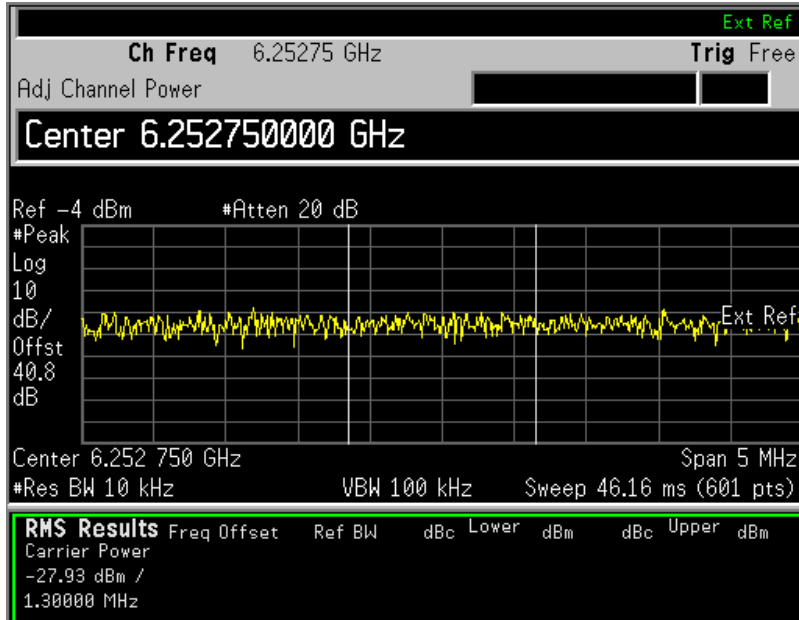




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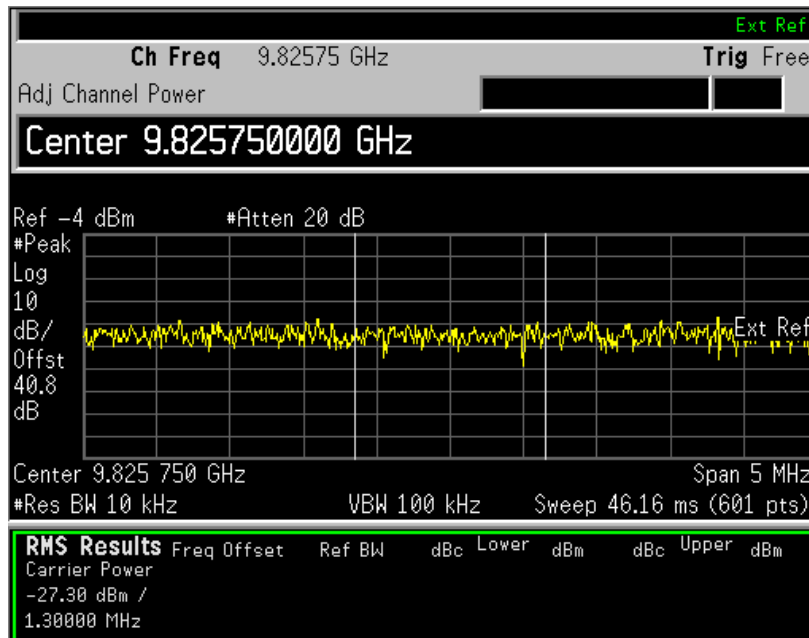
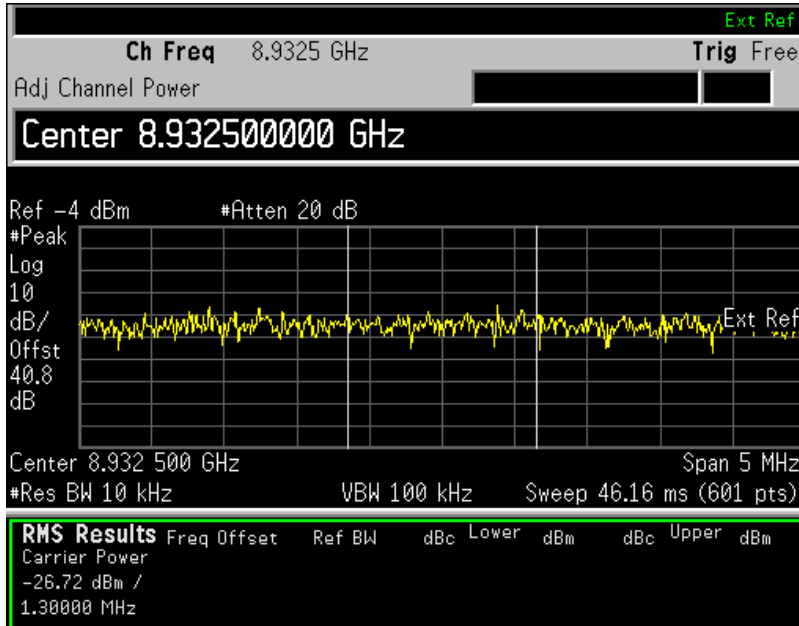




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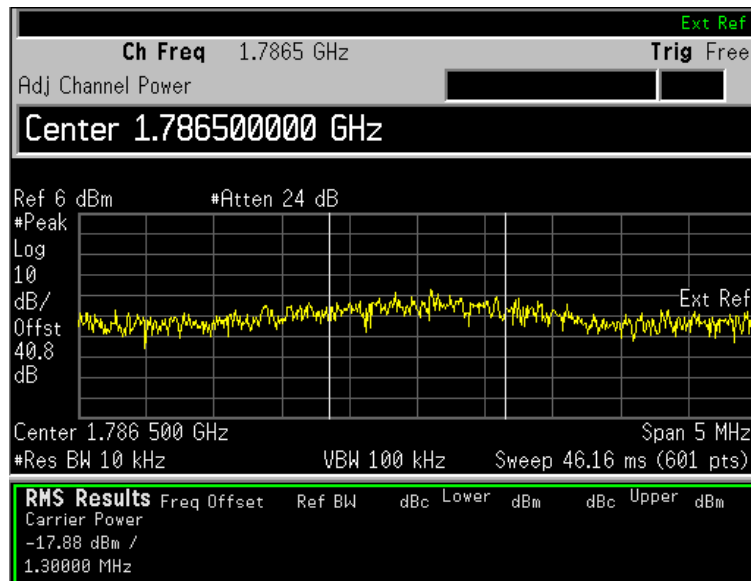
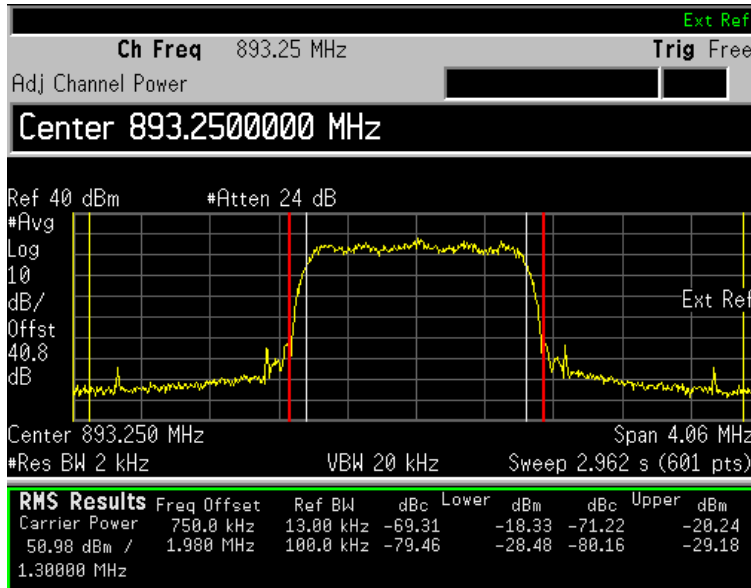
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Spurious Emissions at Antenna Terminal – 120W Channel 775 – 893.25 MHz – 8PSK

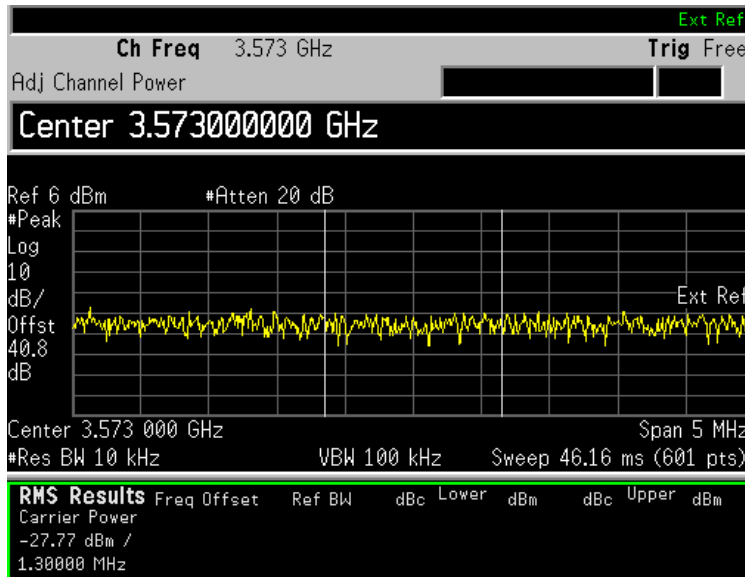
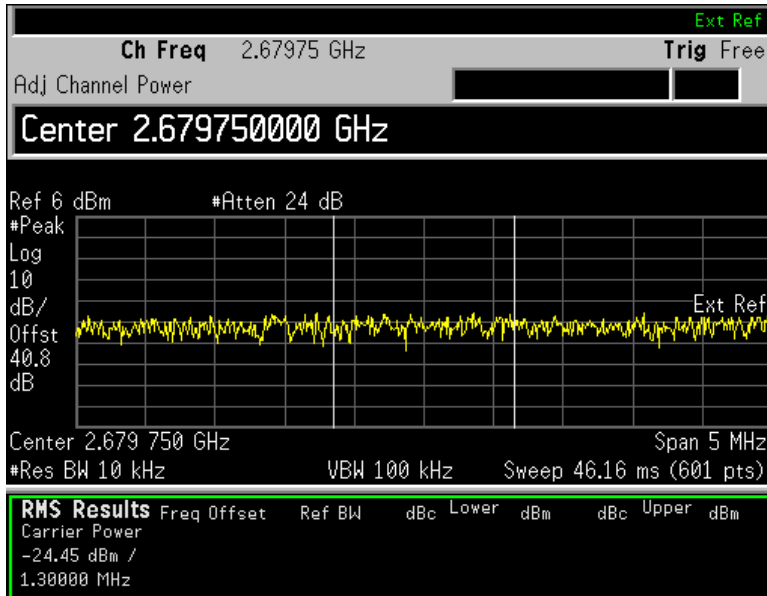




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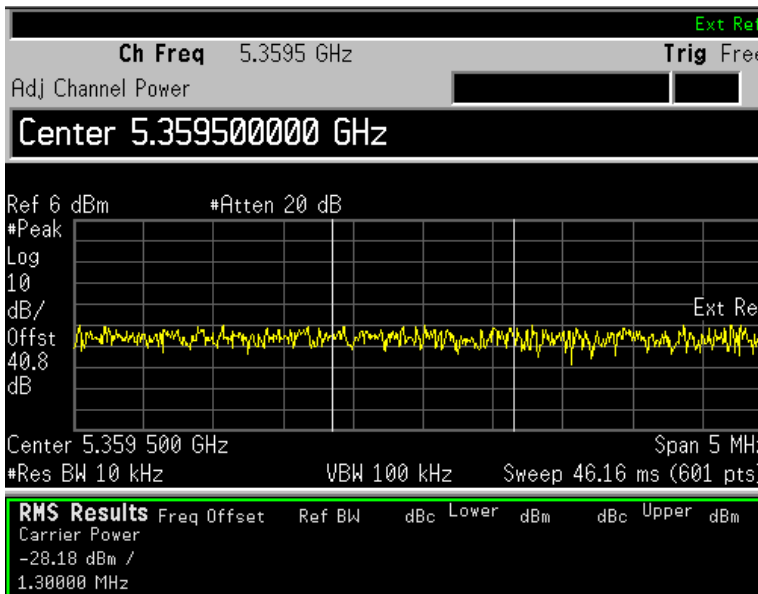
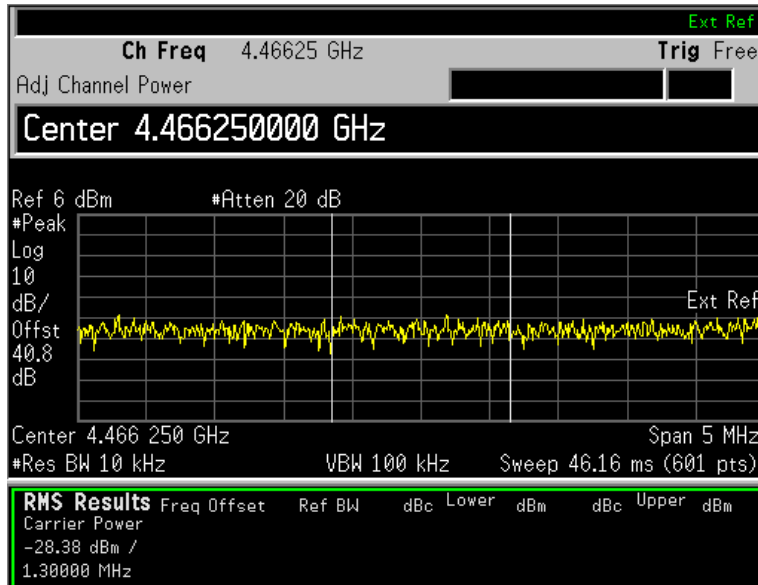




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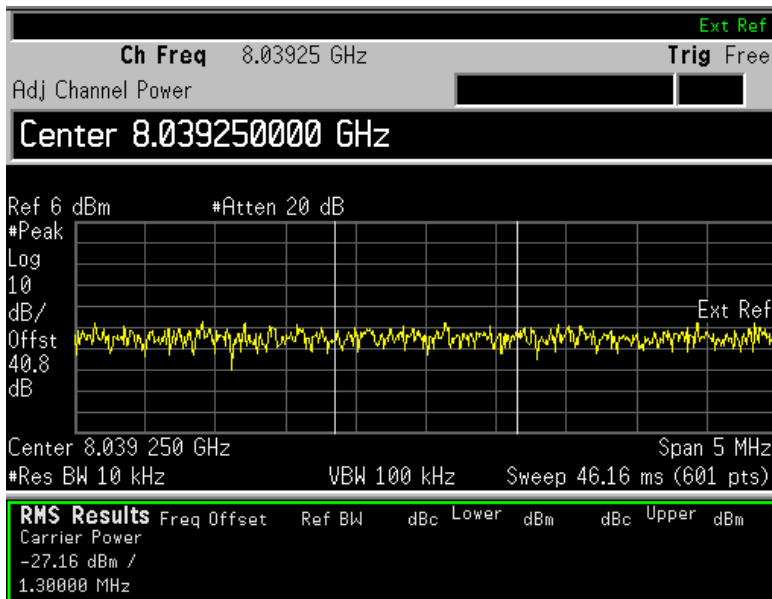
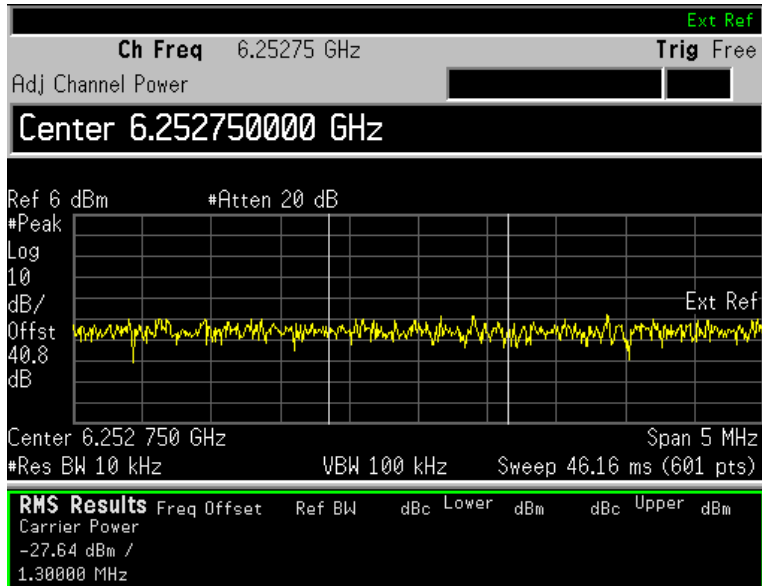




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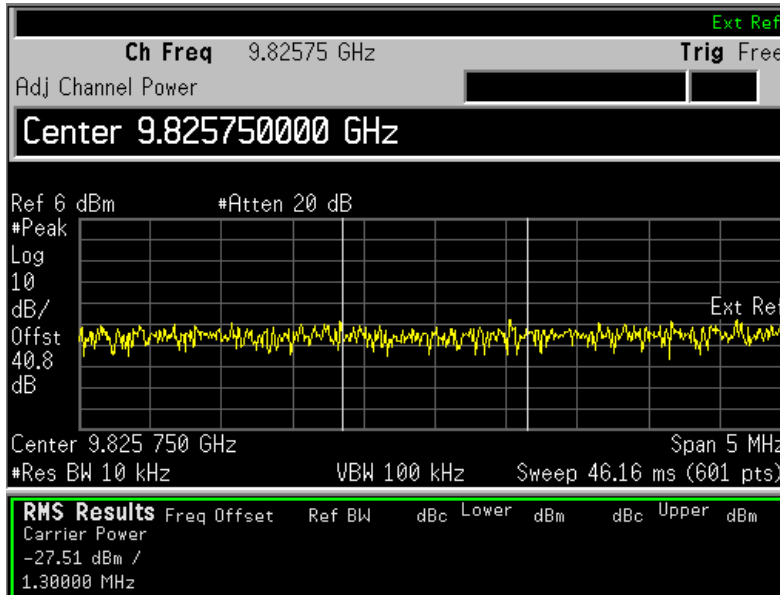
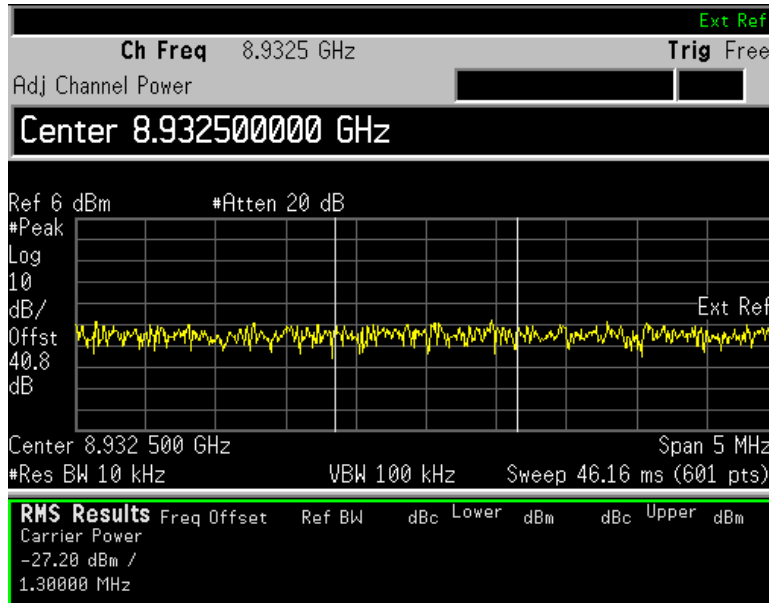




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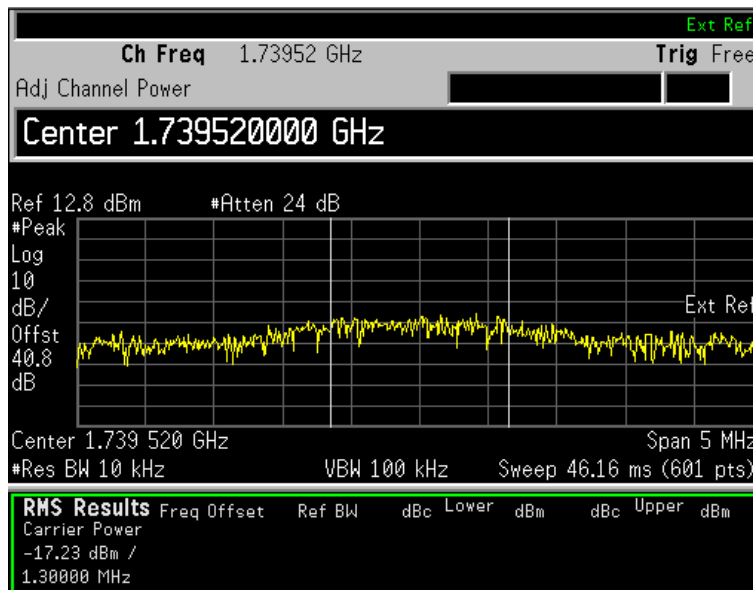
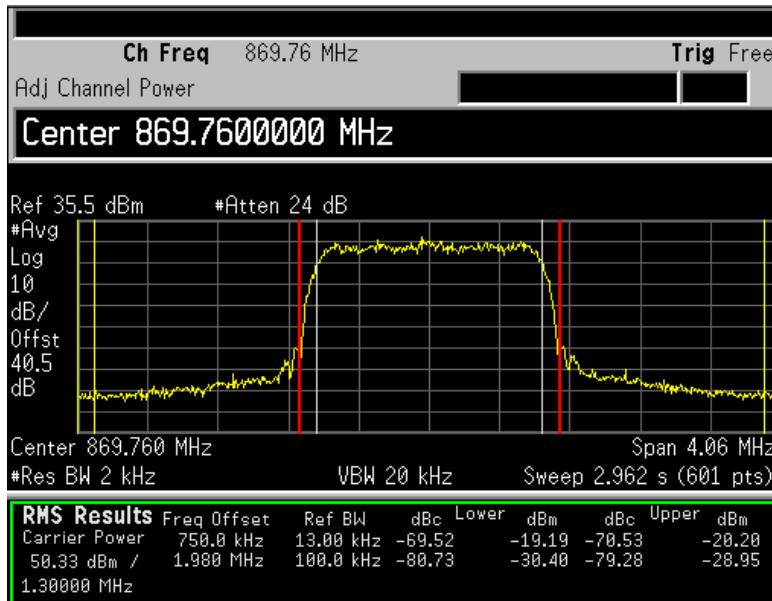
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Spurious Emissions at Antenna Terminal – 120W Channel 1015 – 869.76 MHz – 16QAM

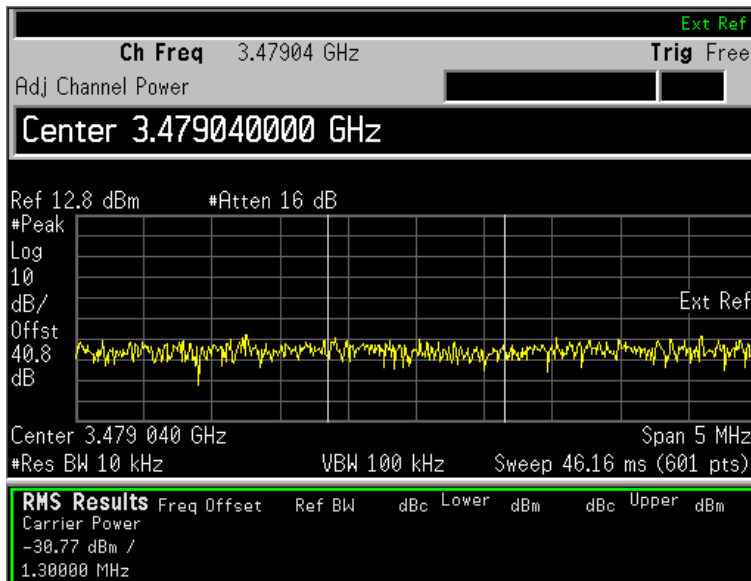
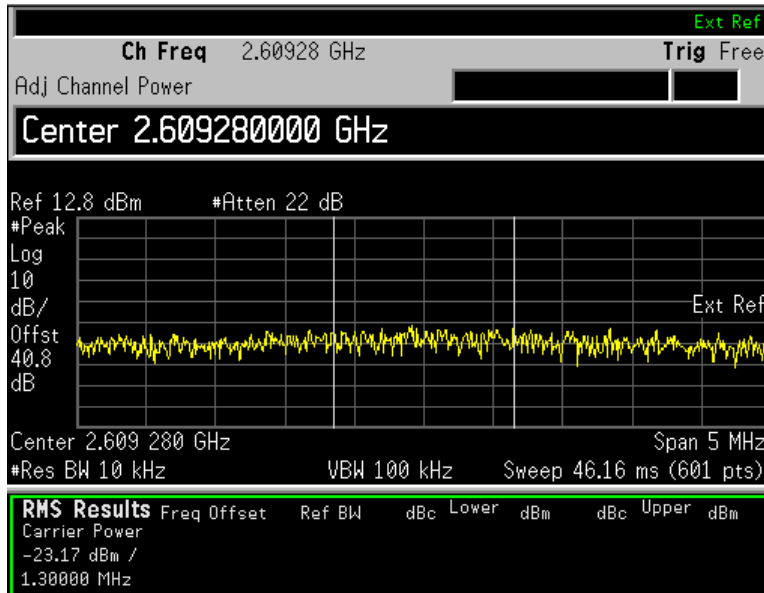




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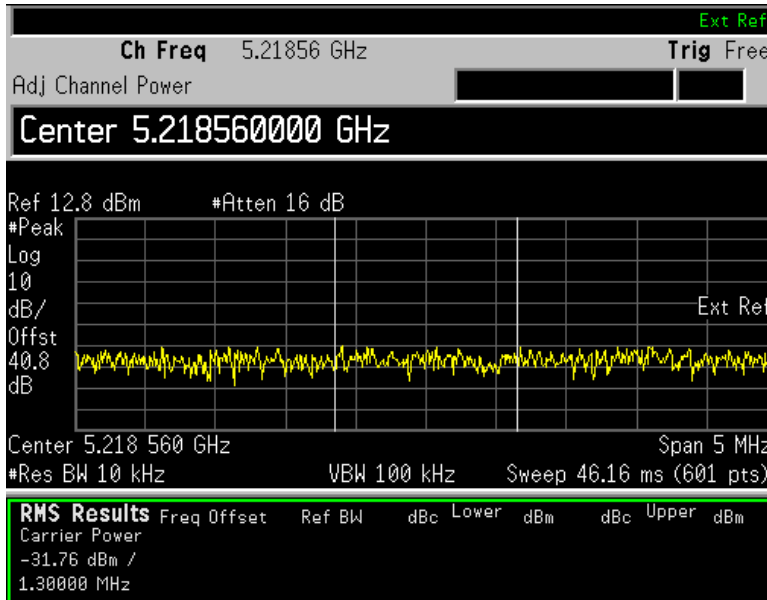
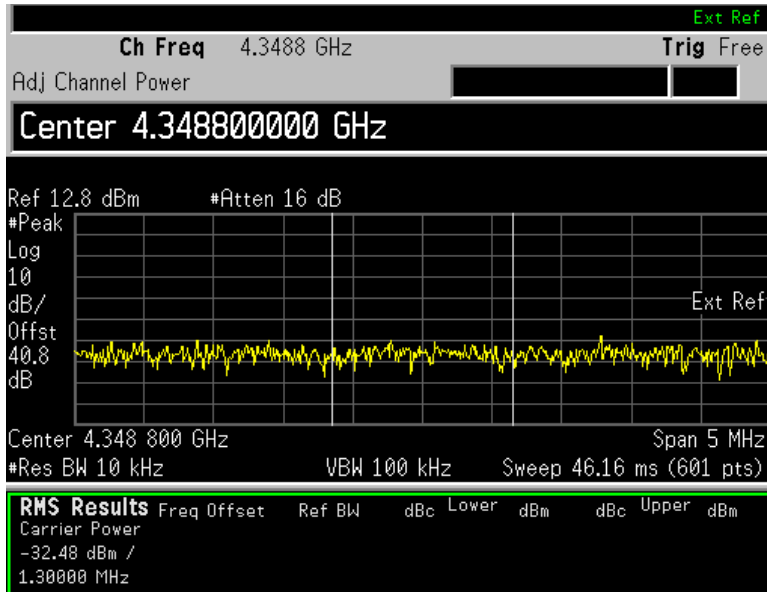




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

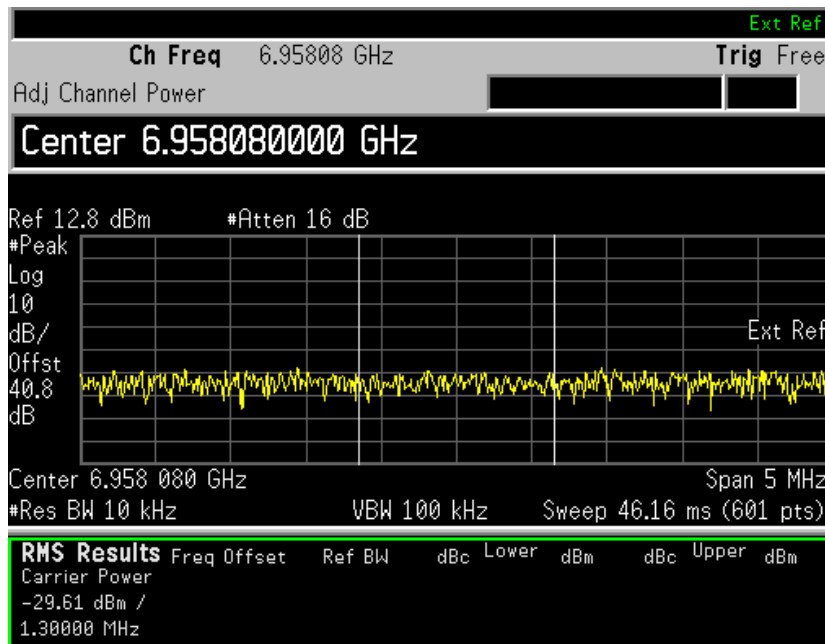
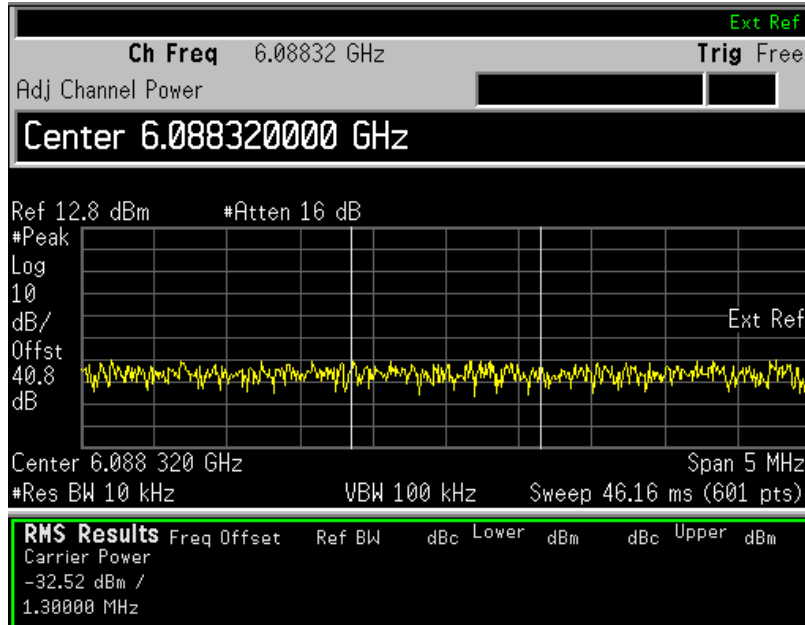




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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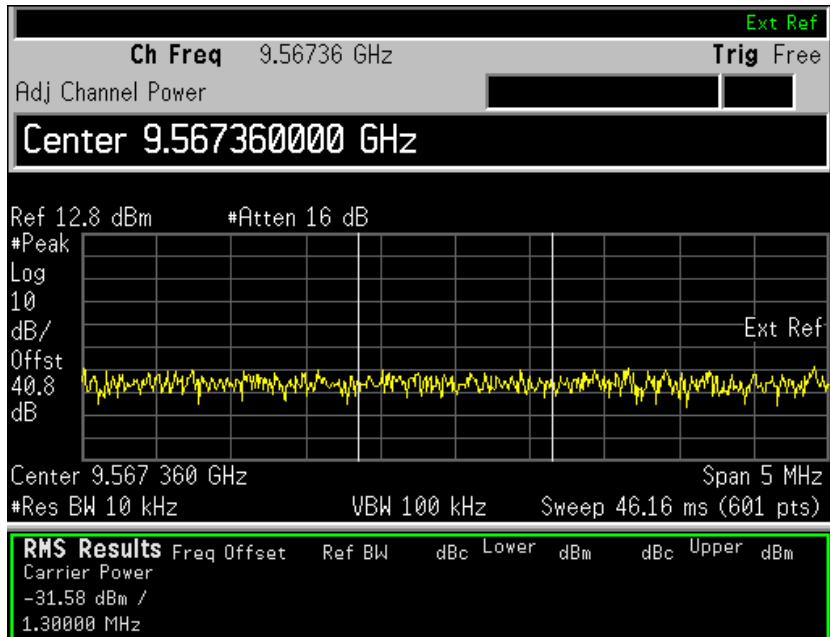
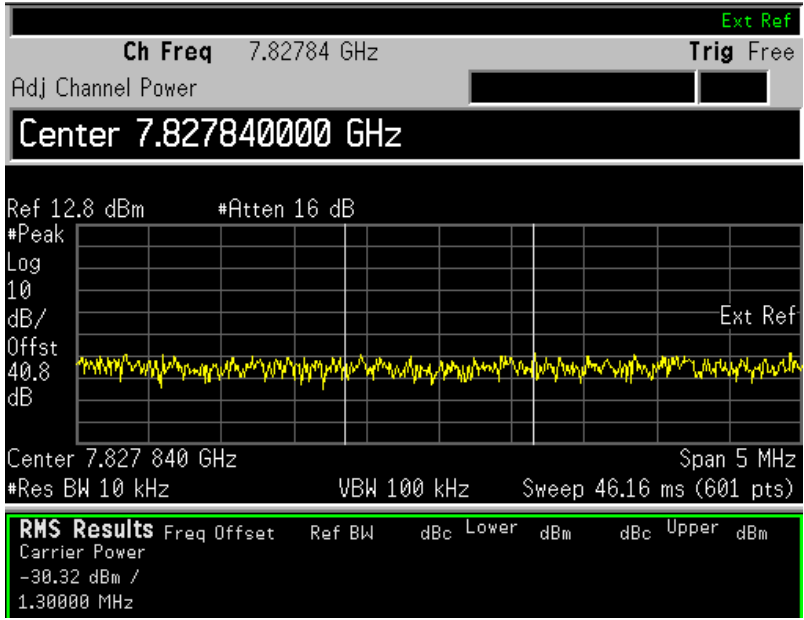




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





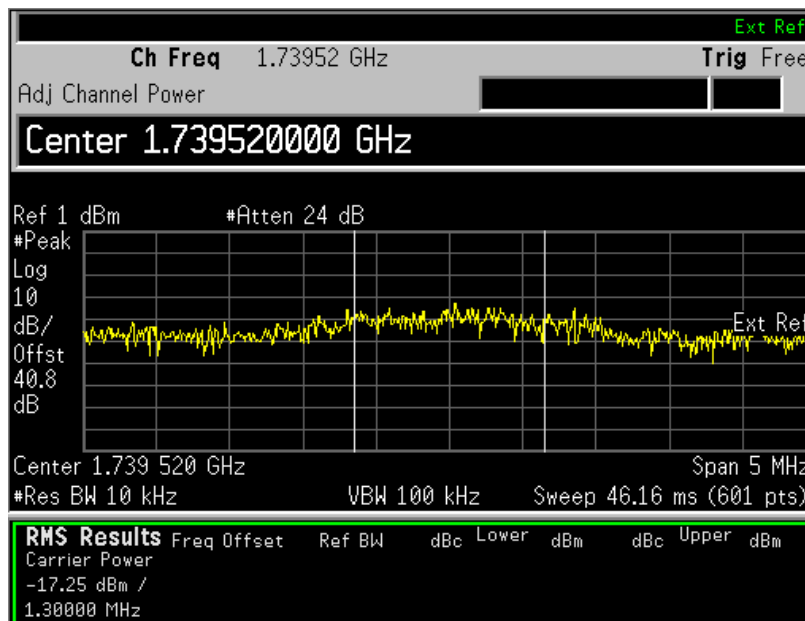
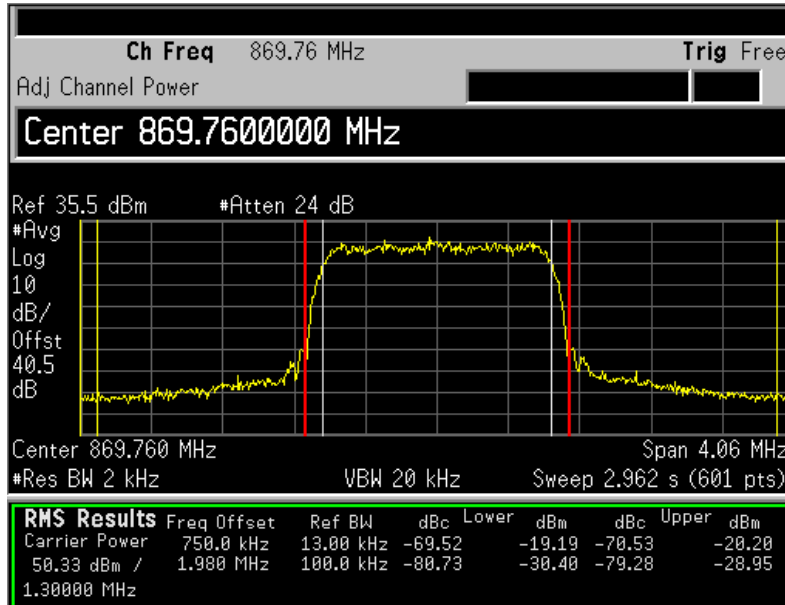
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 120W Channel 1015 – 869.76 MHz – 8PSK

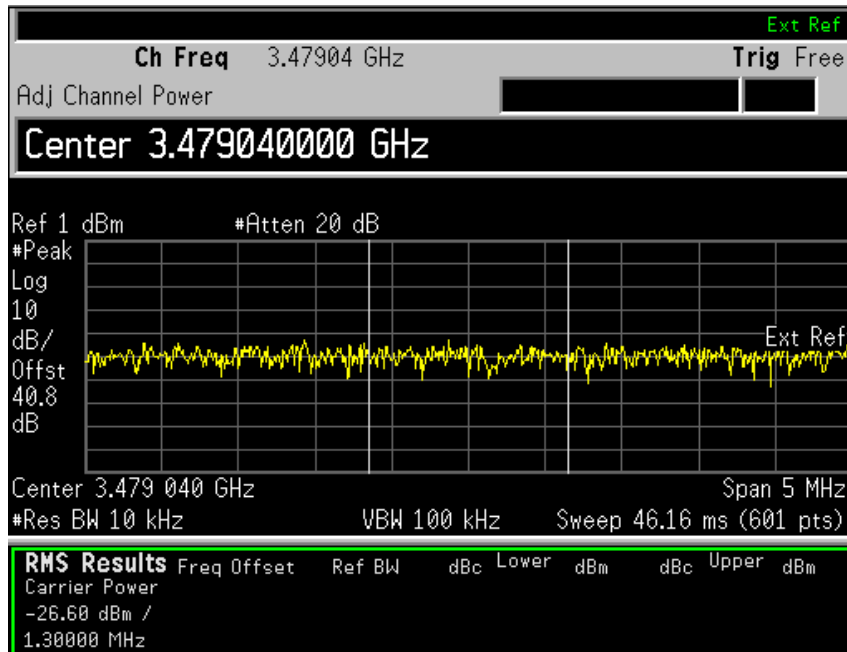
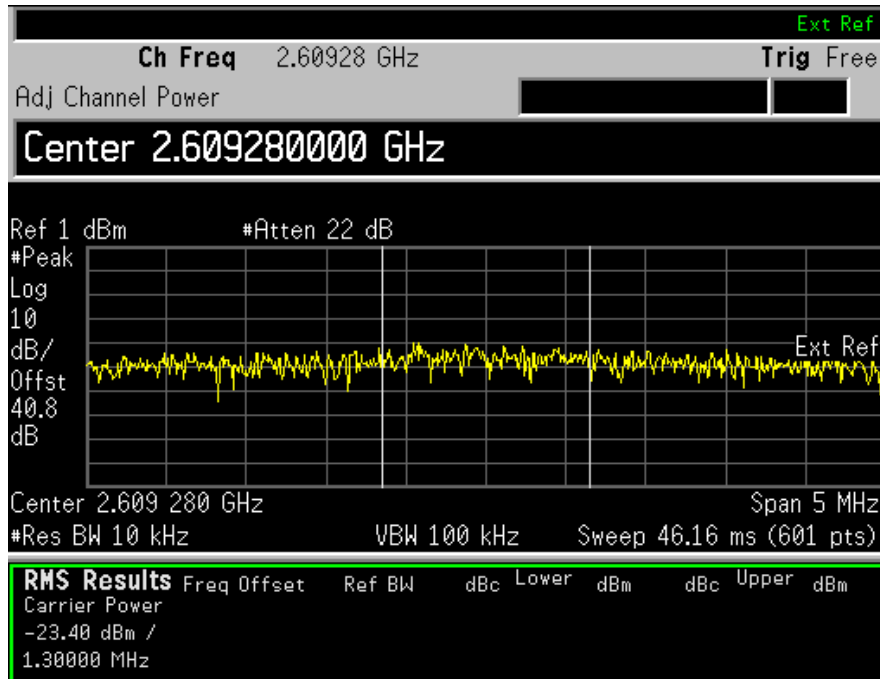




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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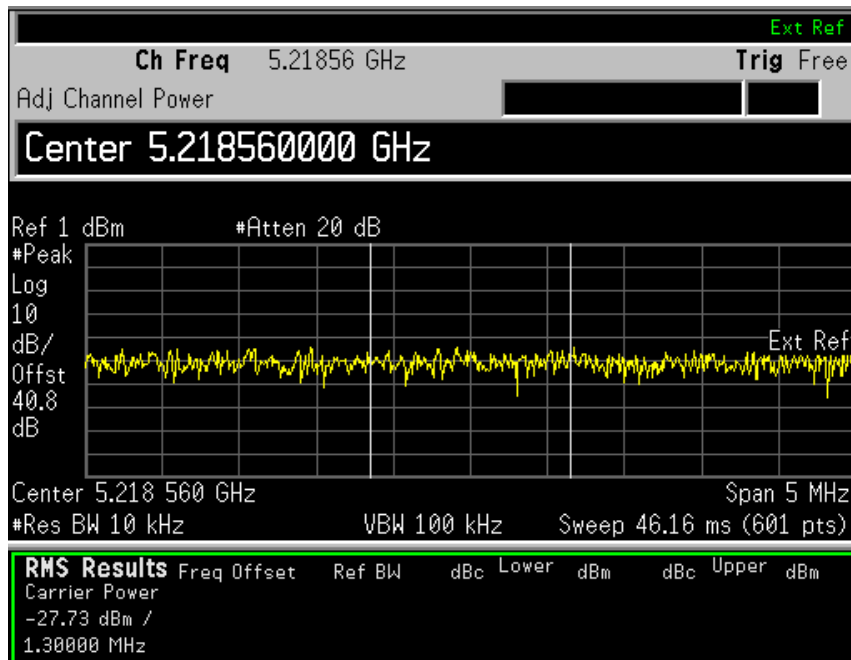
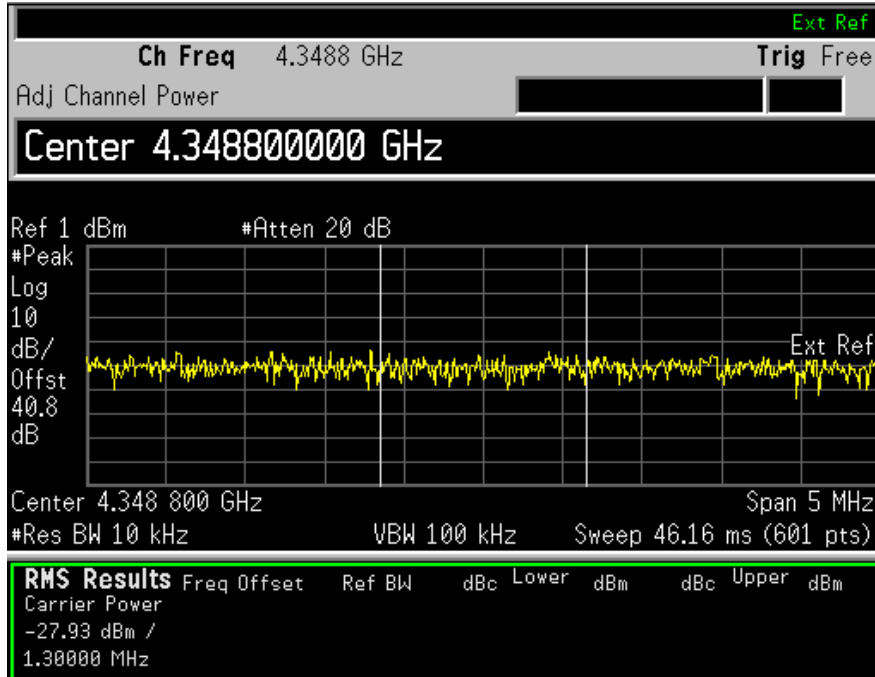




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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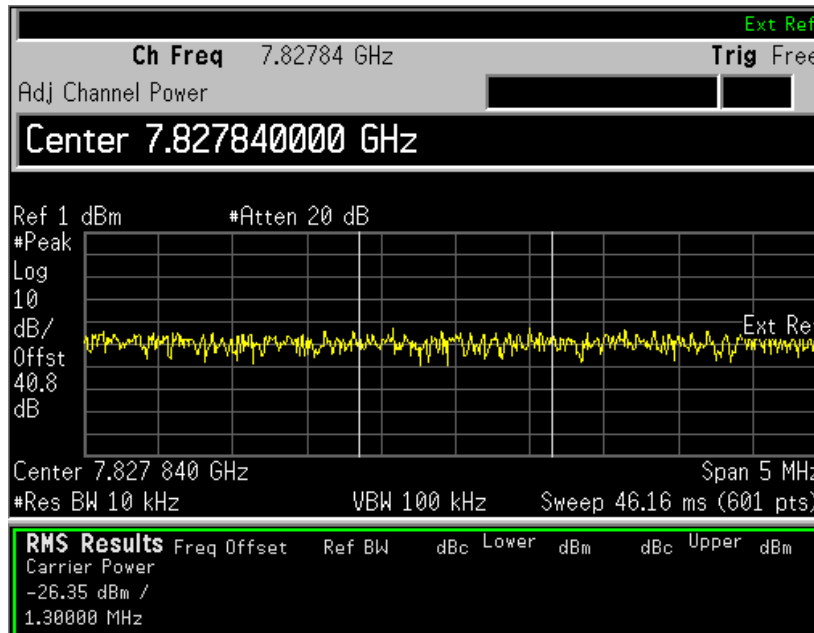
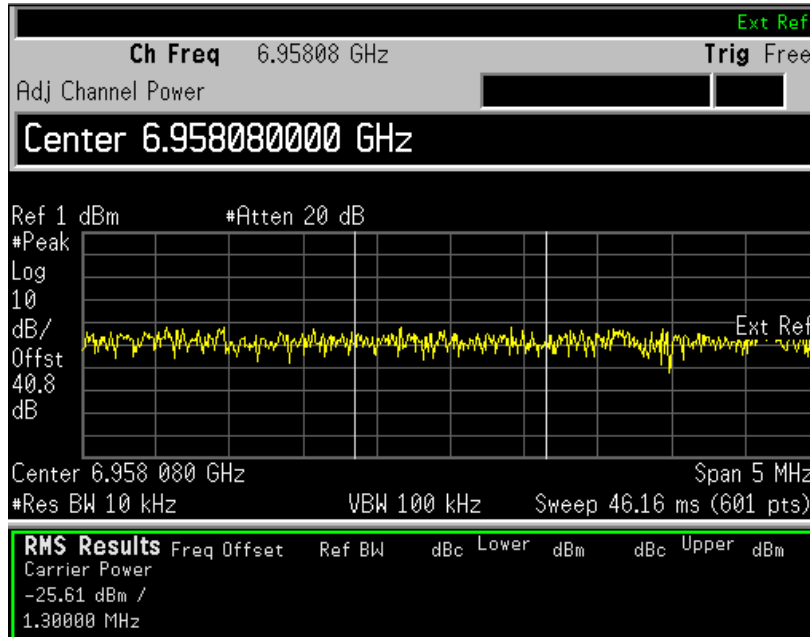




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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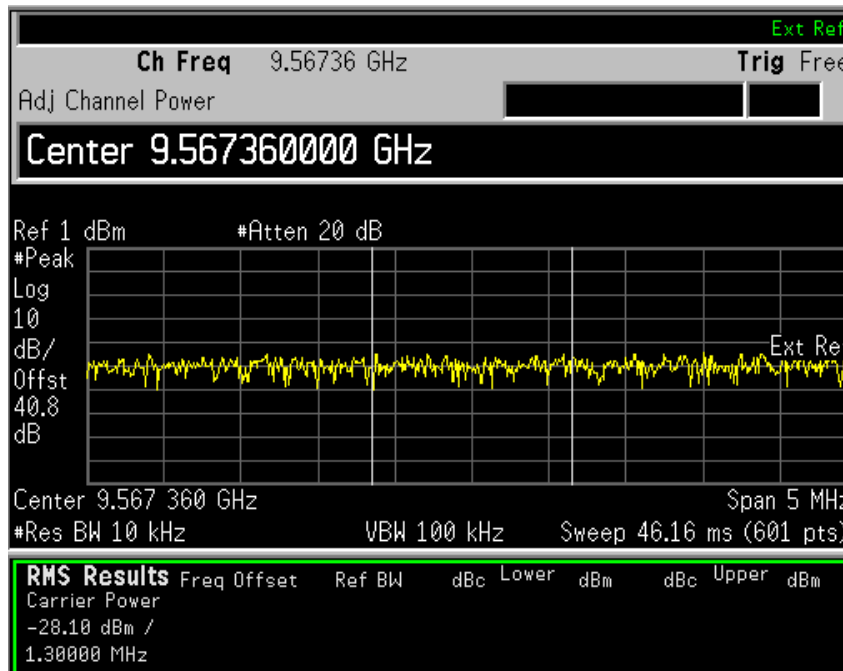
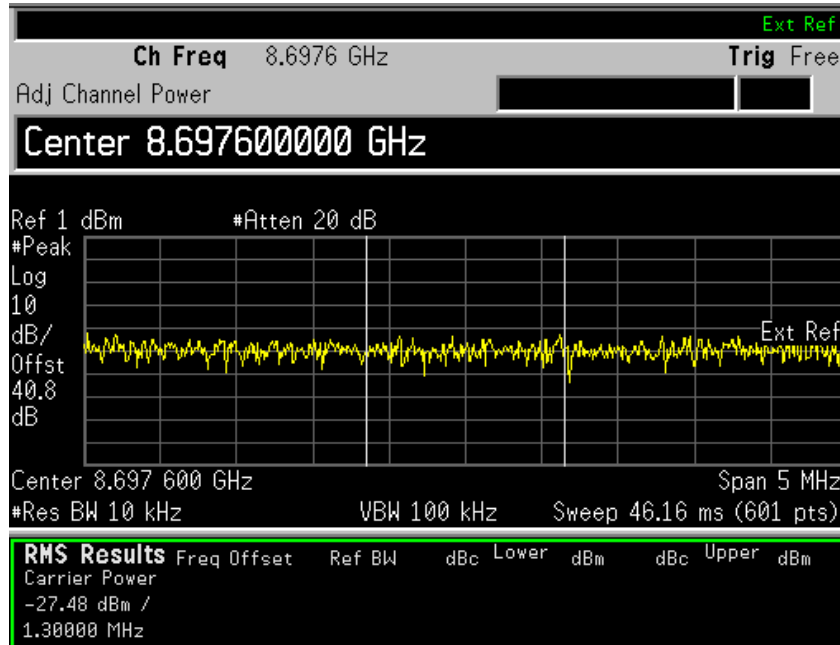




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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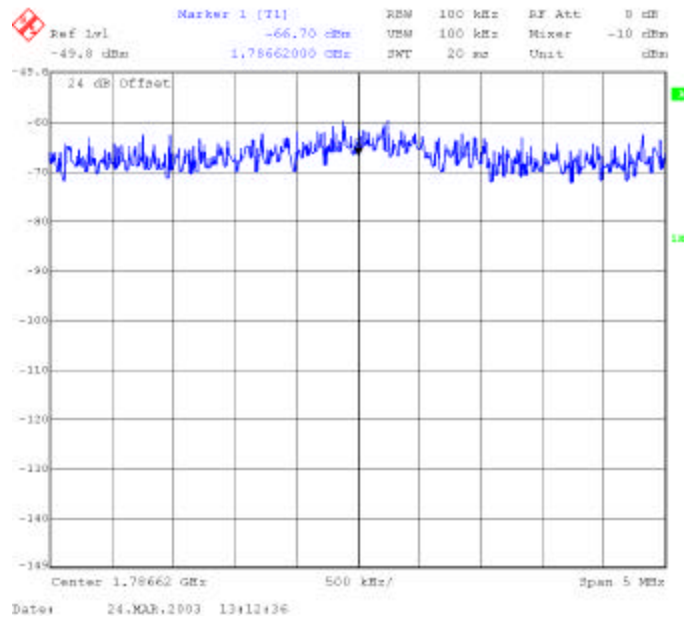
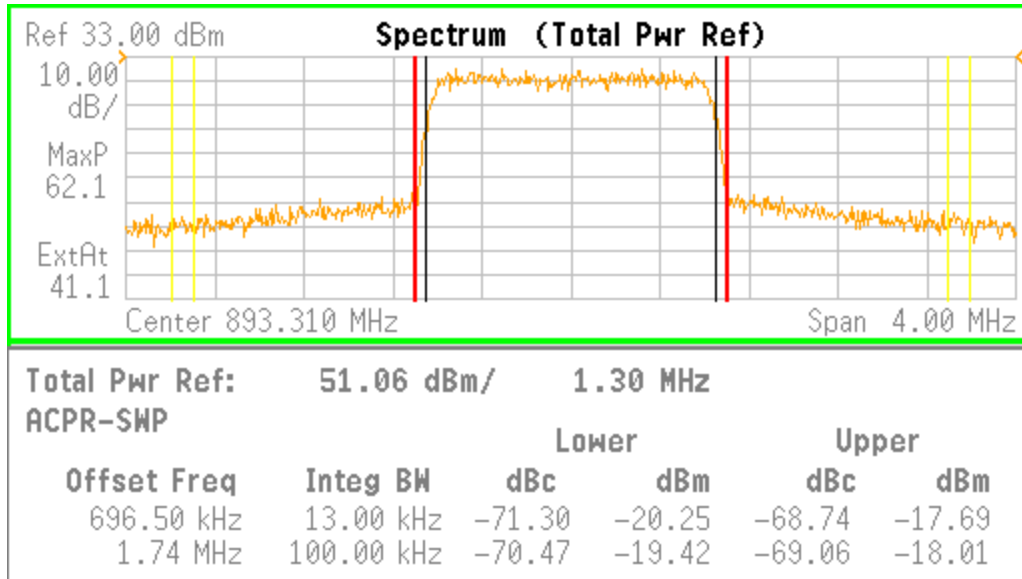


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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

Spurious Emissions at Antenna Terminal – 120W Channel 777 – 893.31 MHz

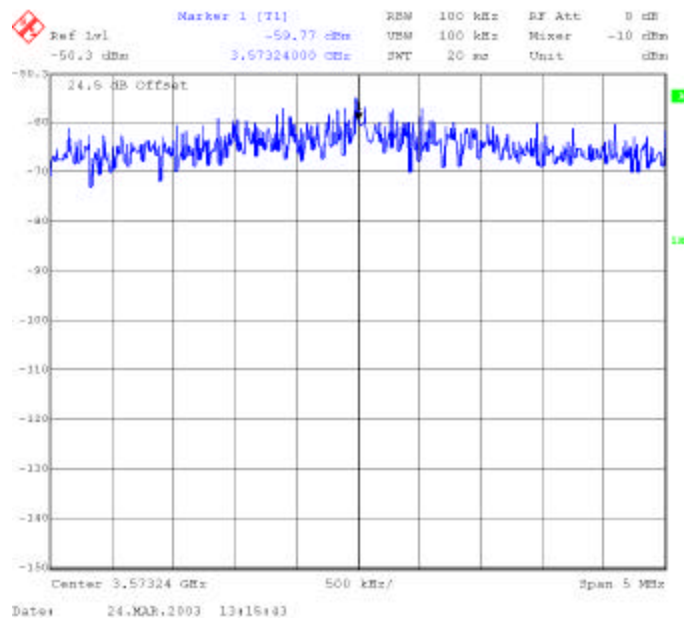
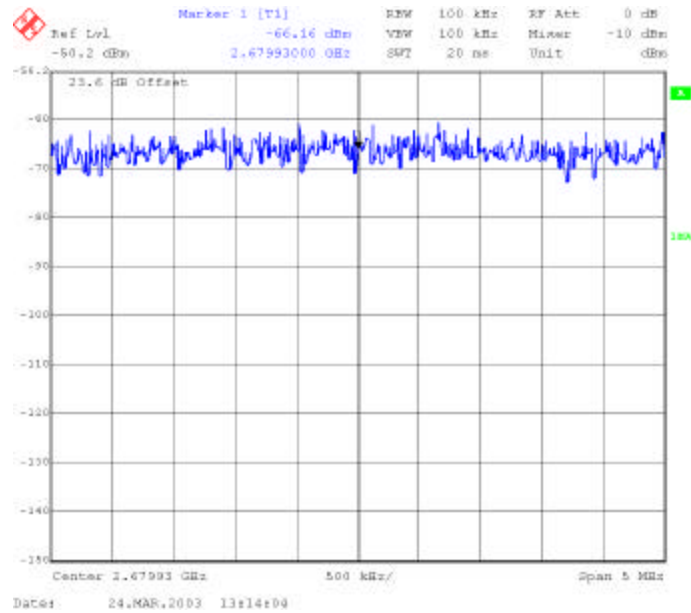




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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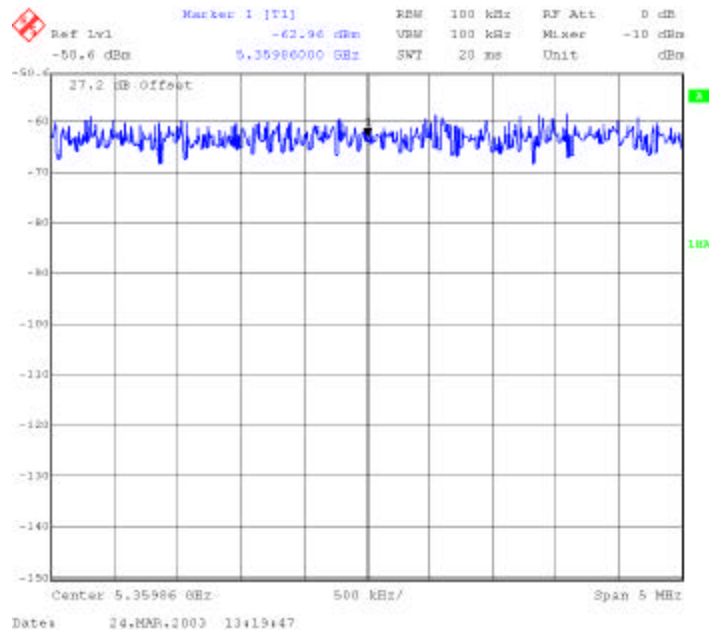
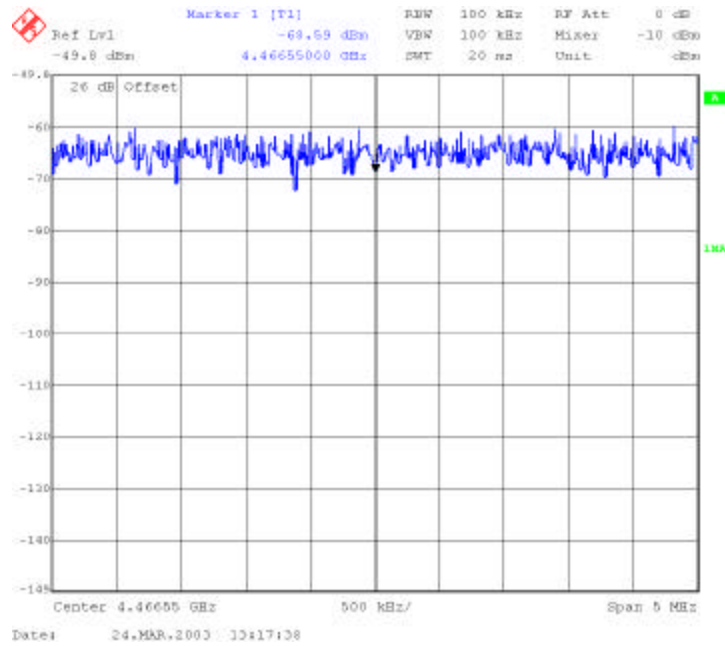




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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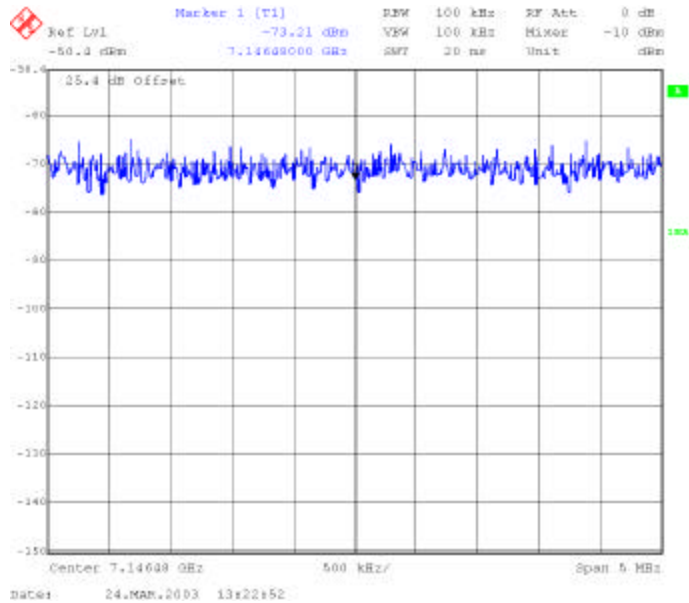
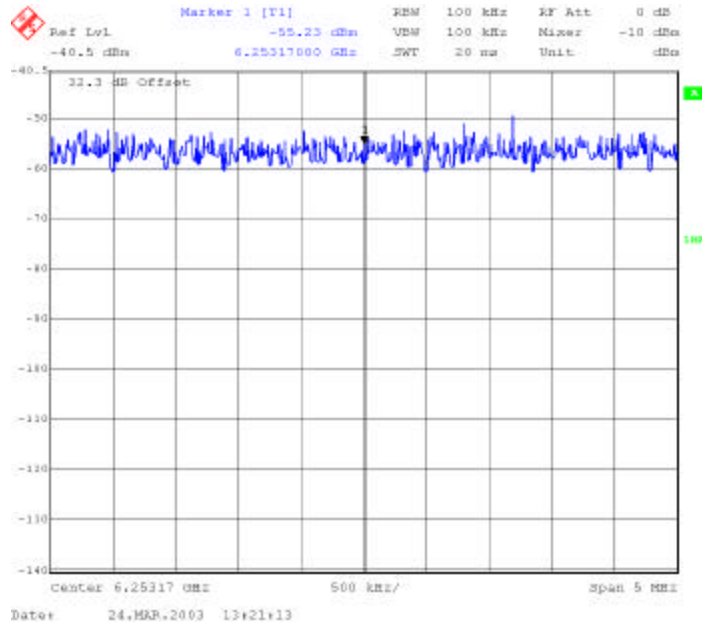




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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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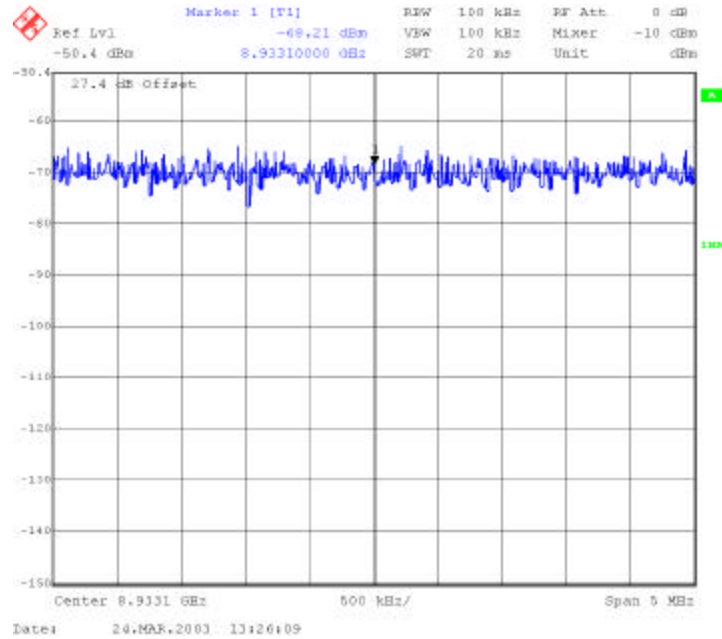
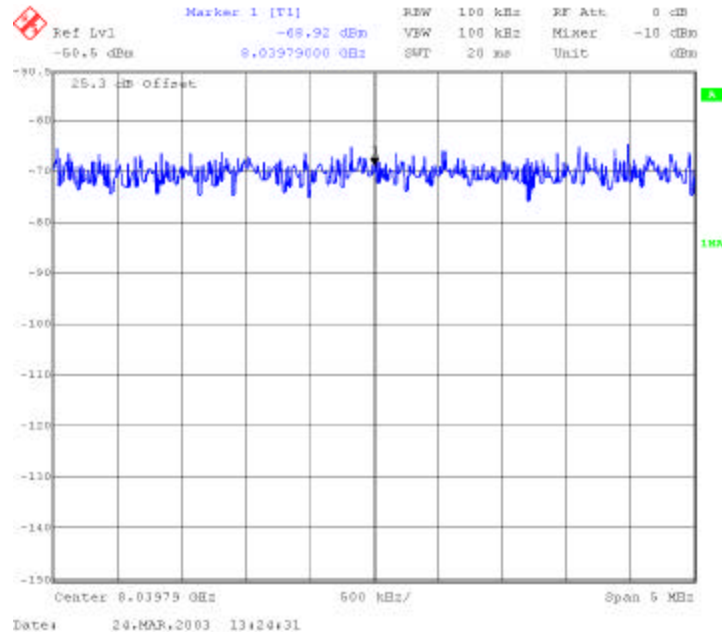




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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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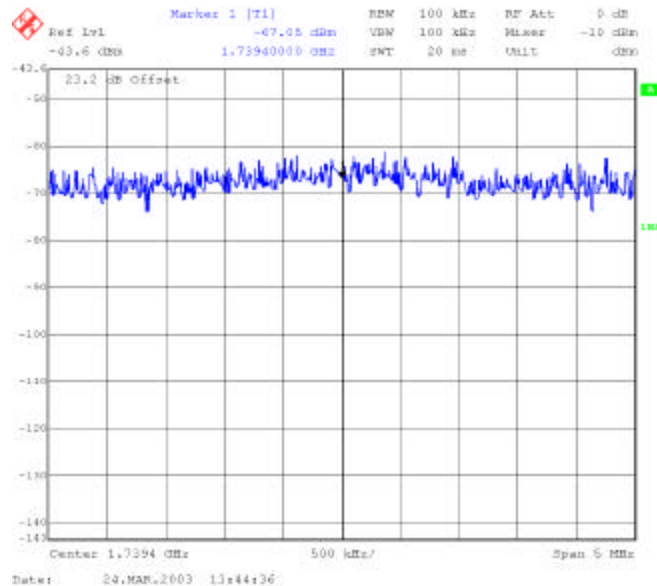
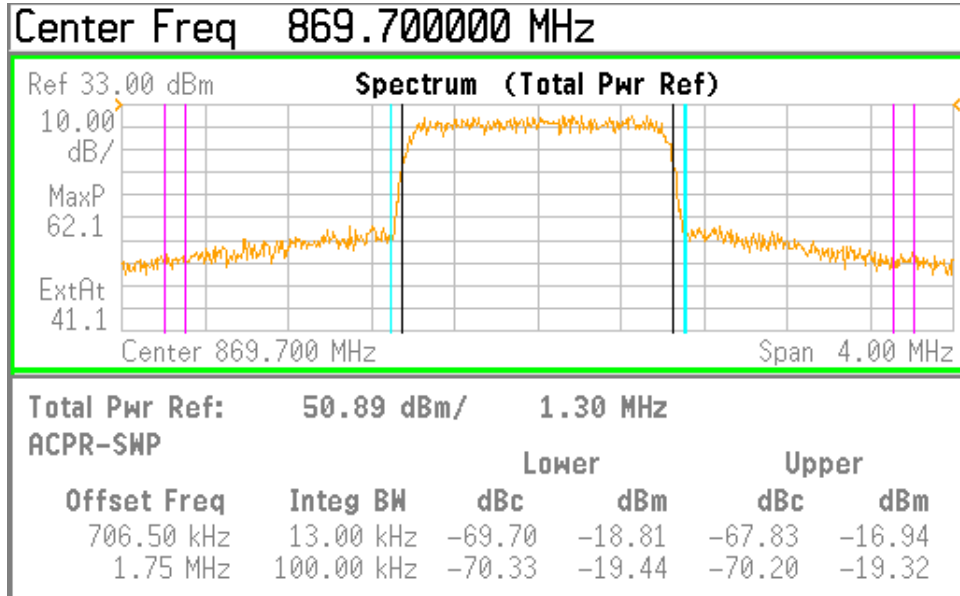


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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

Spurious Emissions at Antenna Terminal – 120W Channel 1013 – 869.70 MHz

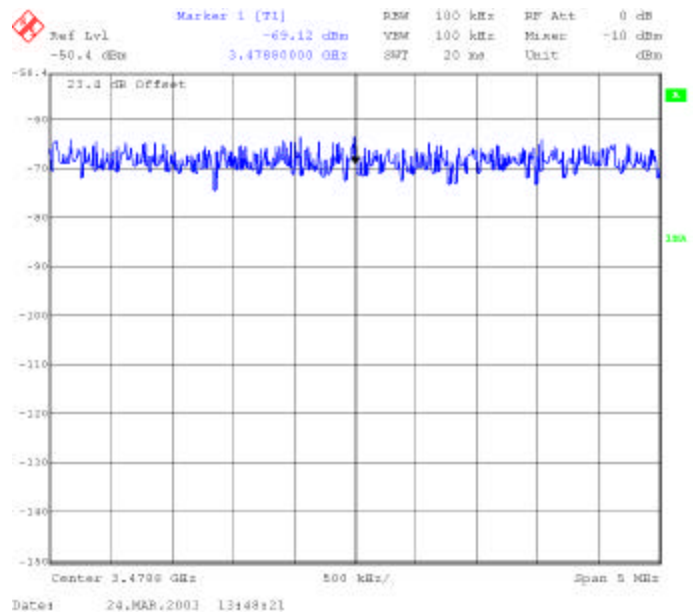
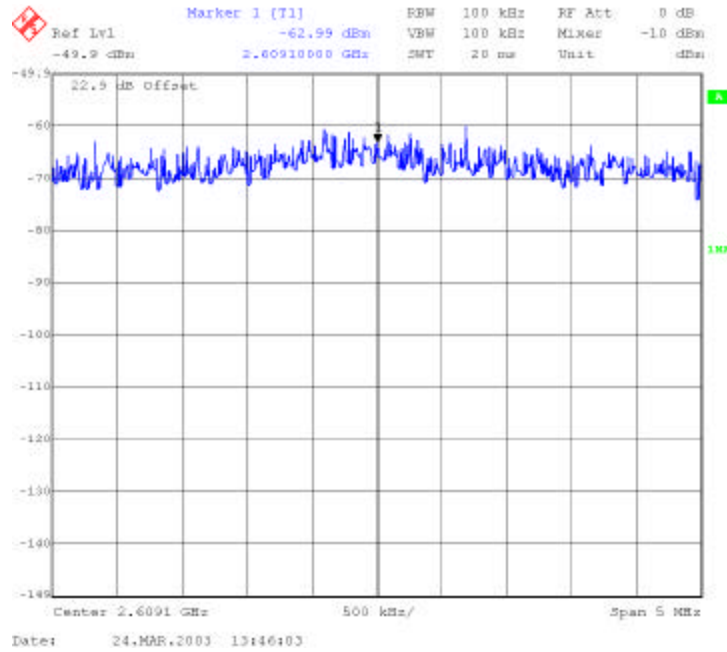




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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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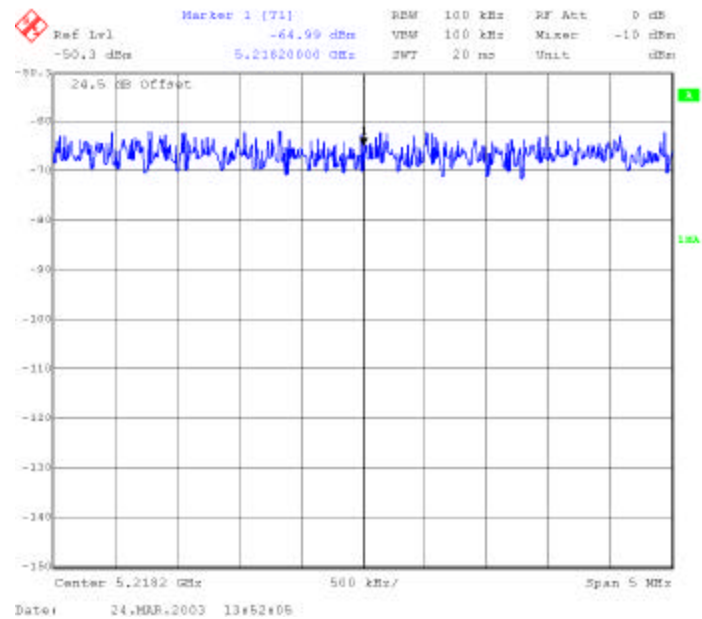
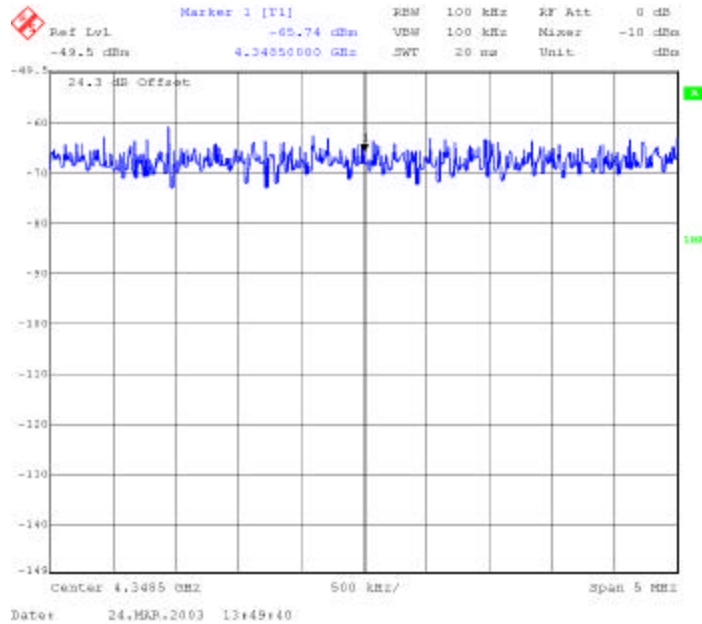




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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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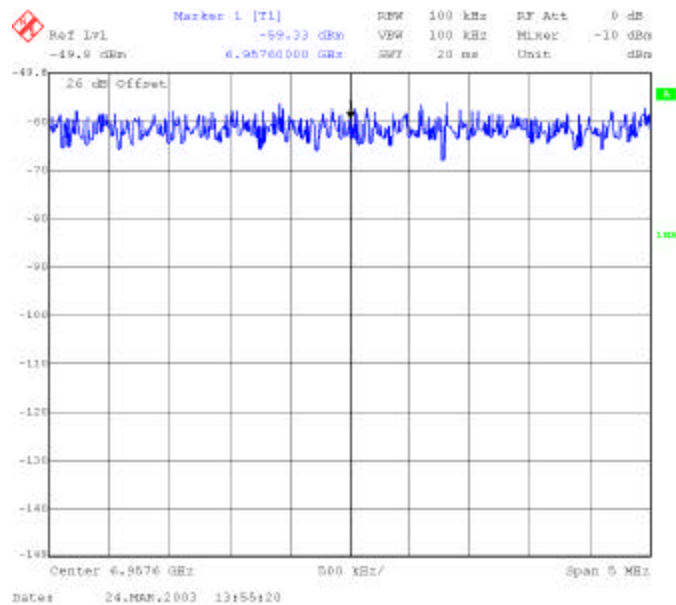
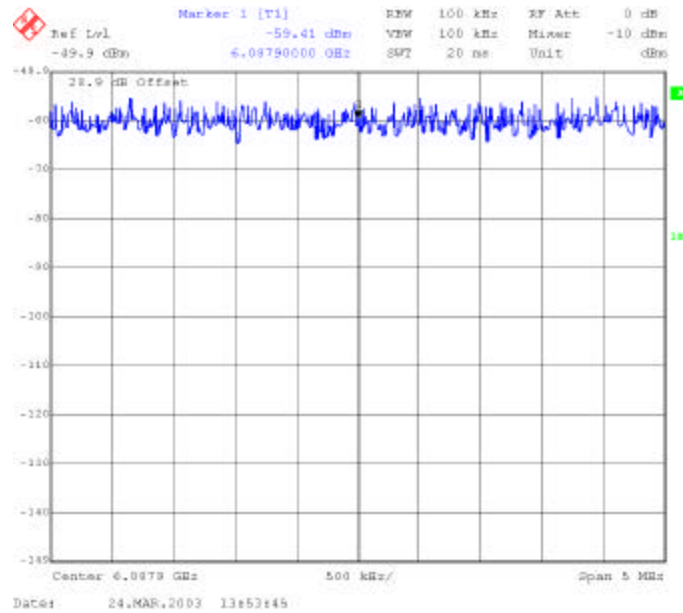




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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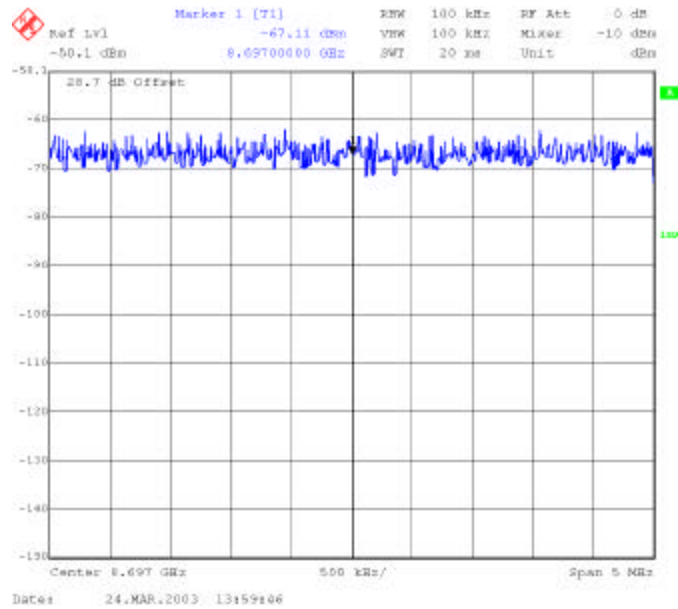
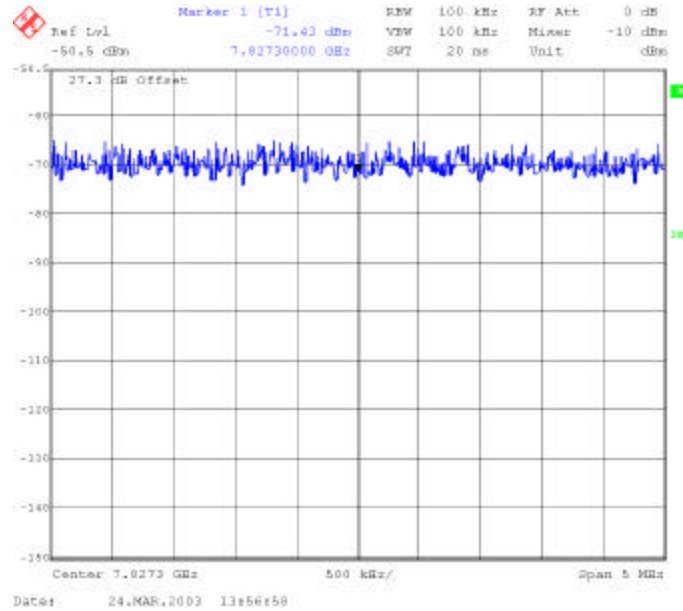




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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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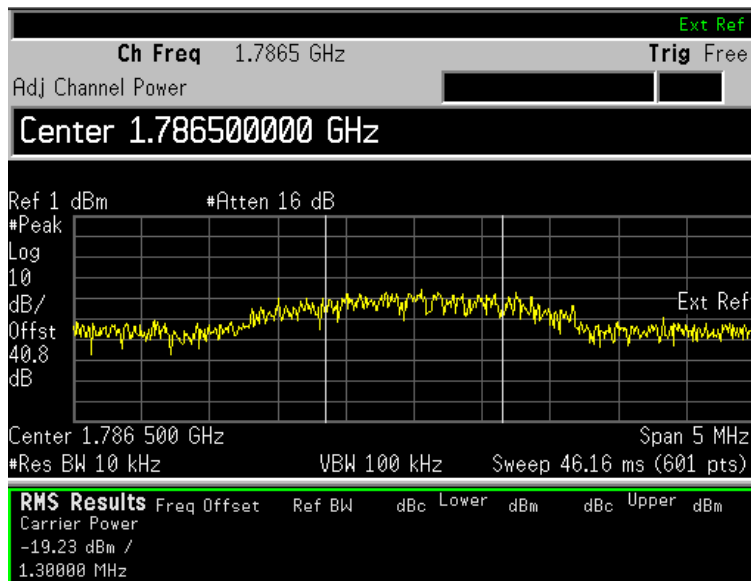
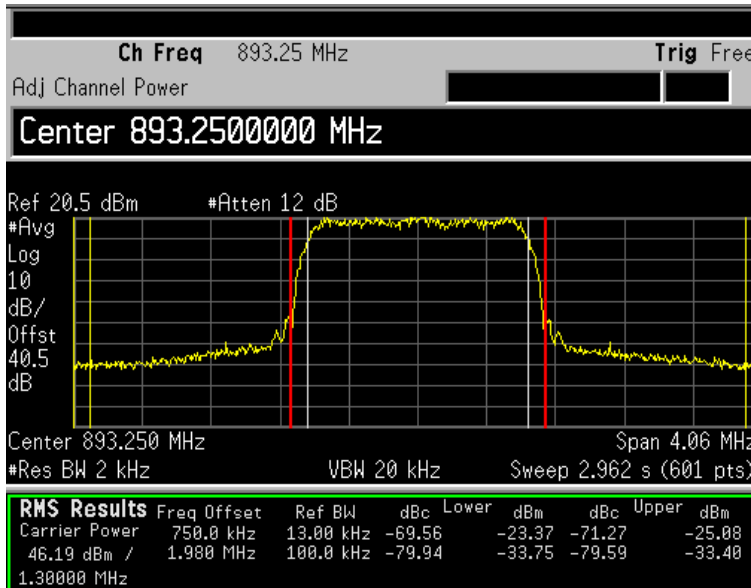
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 40W Channel 775 – 893.25 MHz – 16QAM

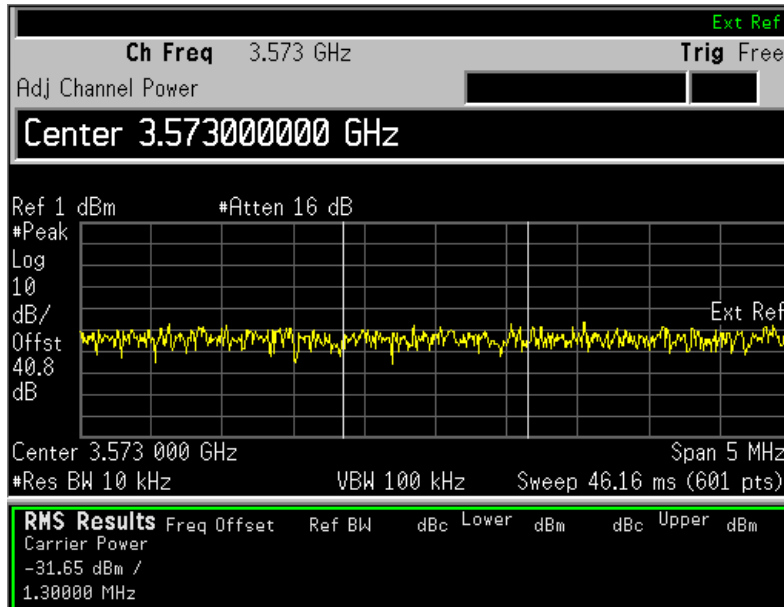
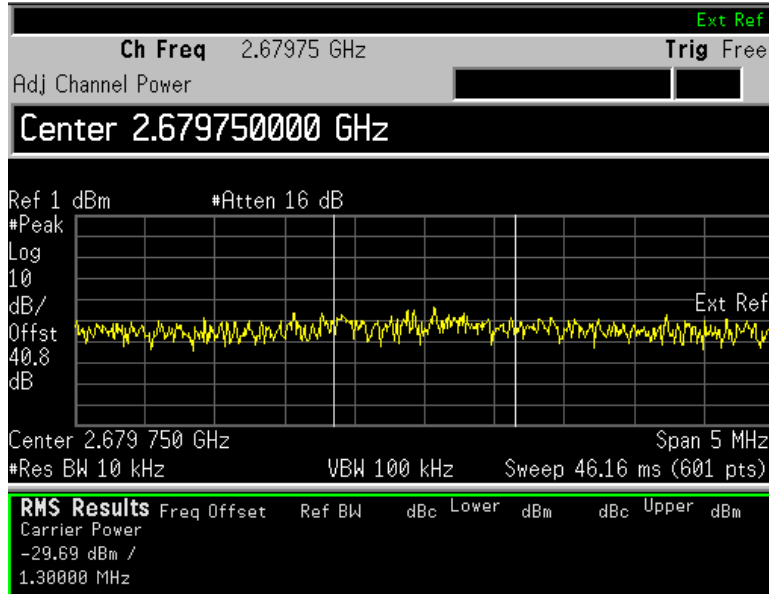




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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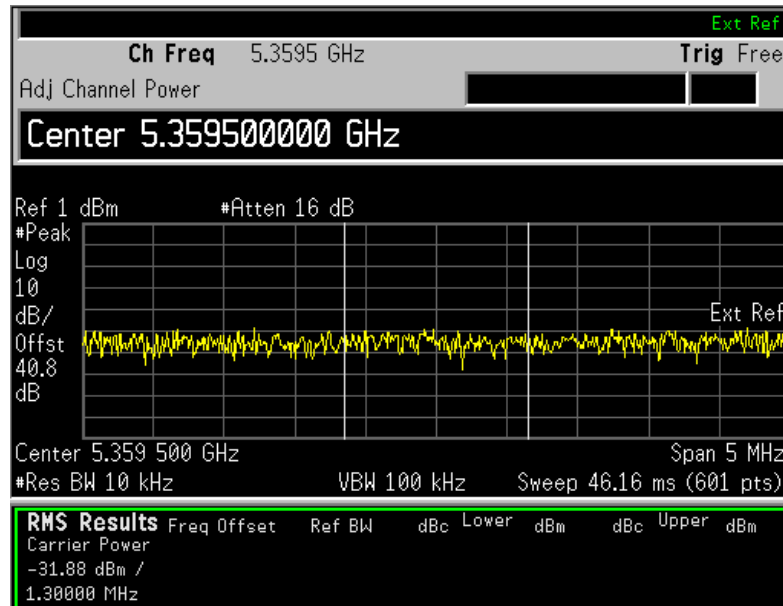
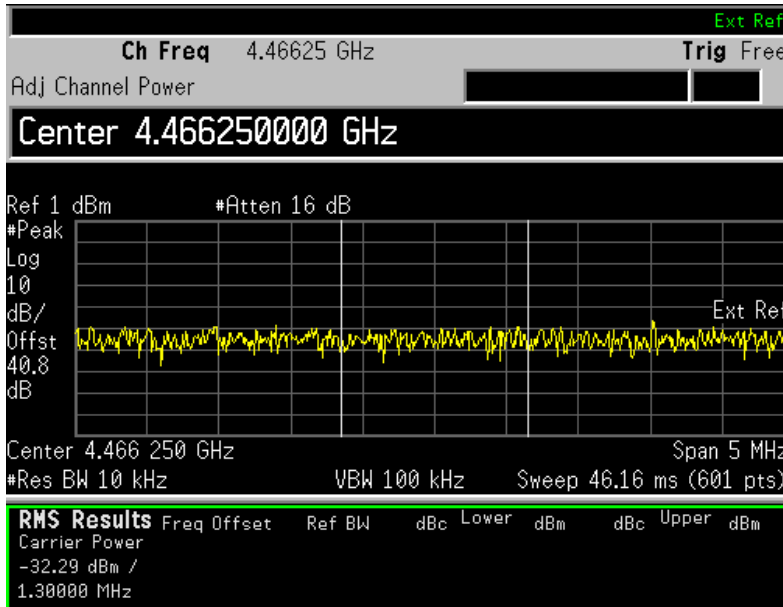




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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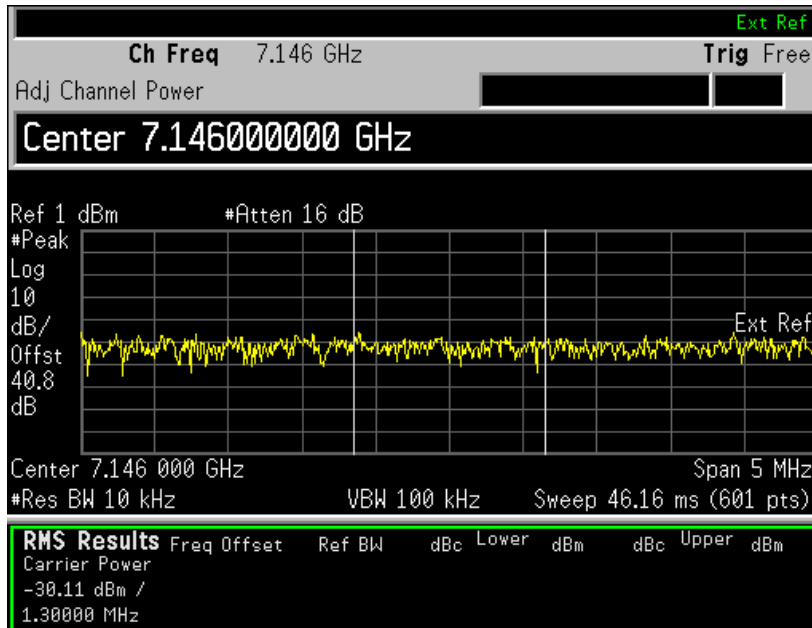
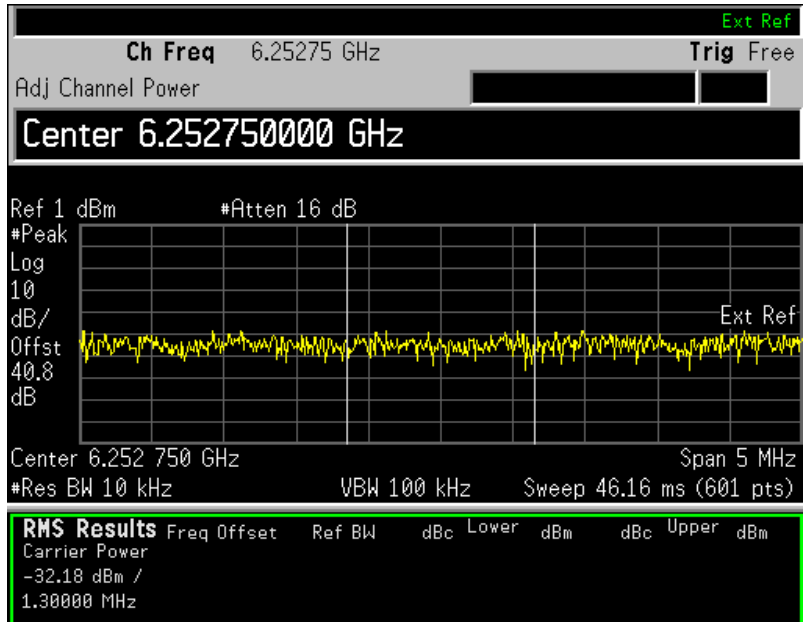




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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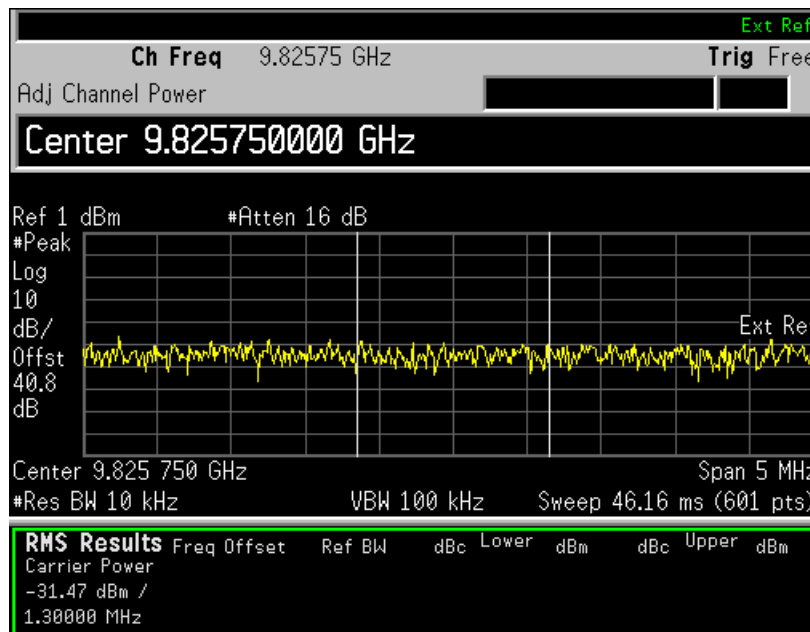
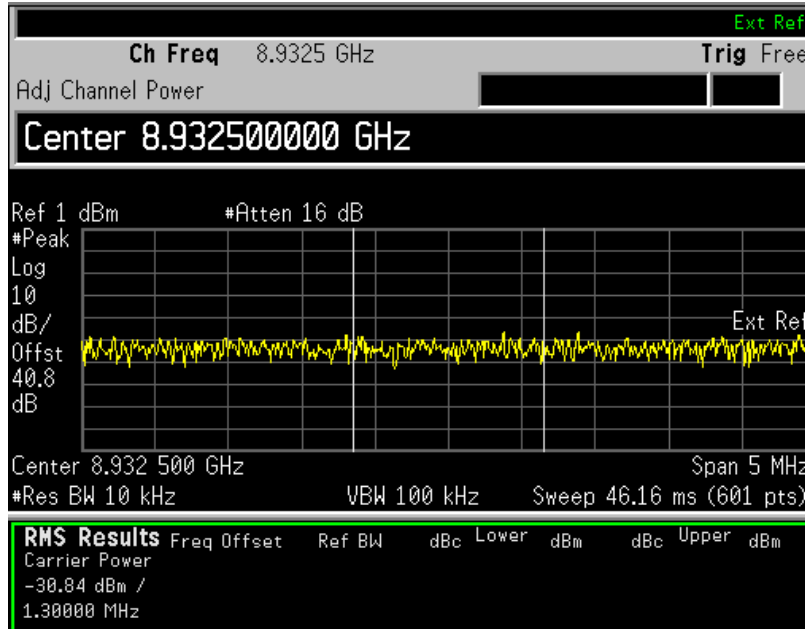




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





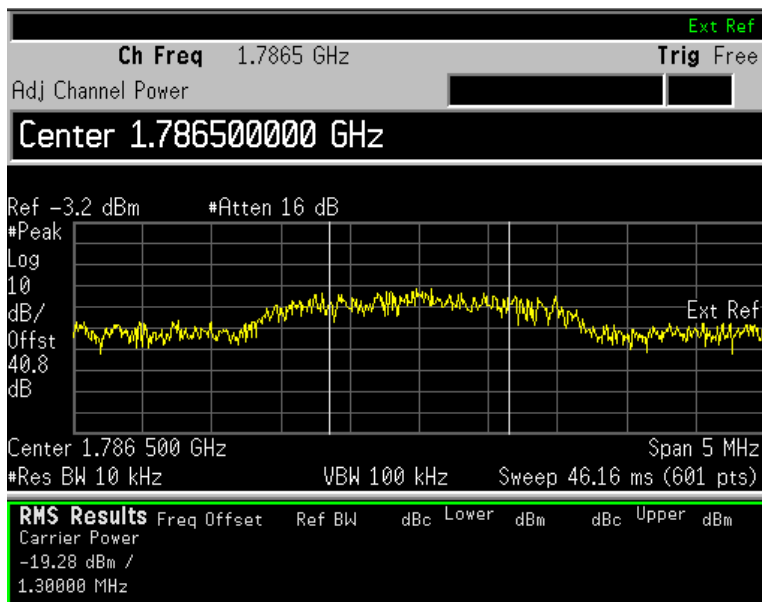
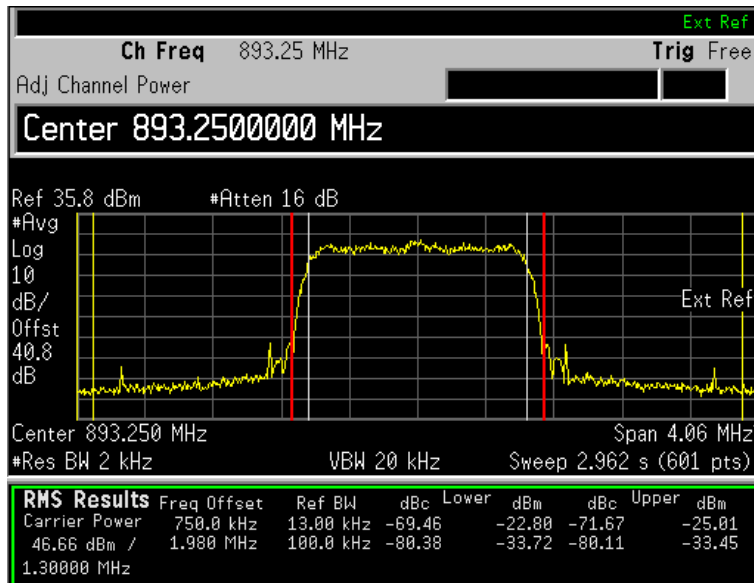
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 40W Channel 775 – 893.25 MHz – 8 PSK

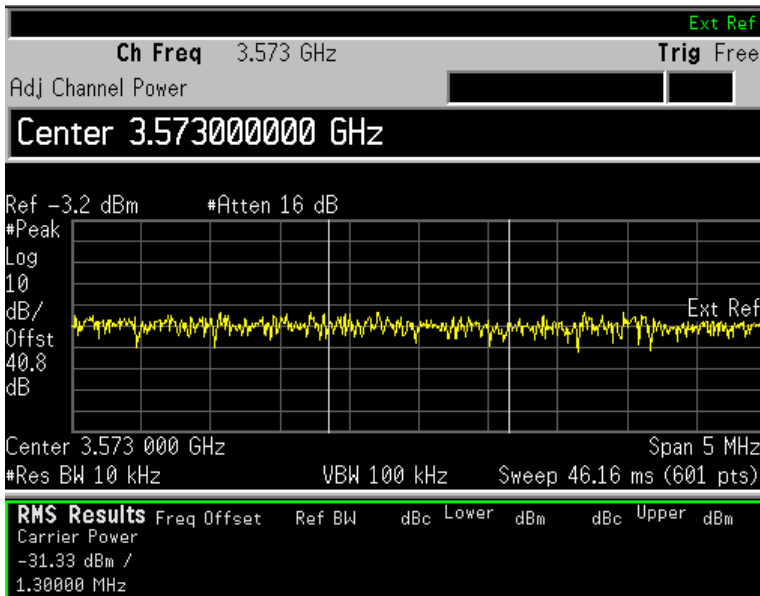
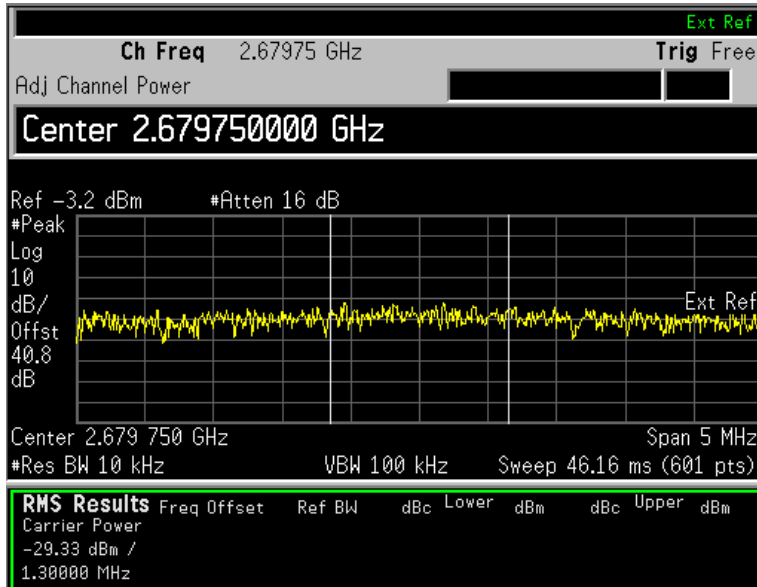




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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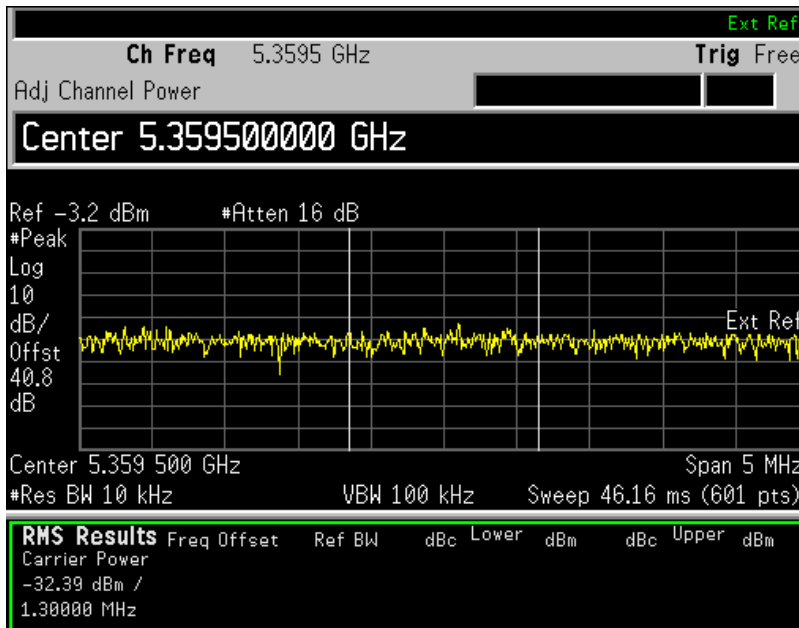
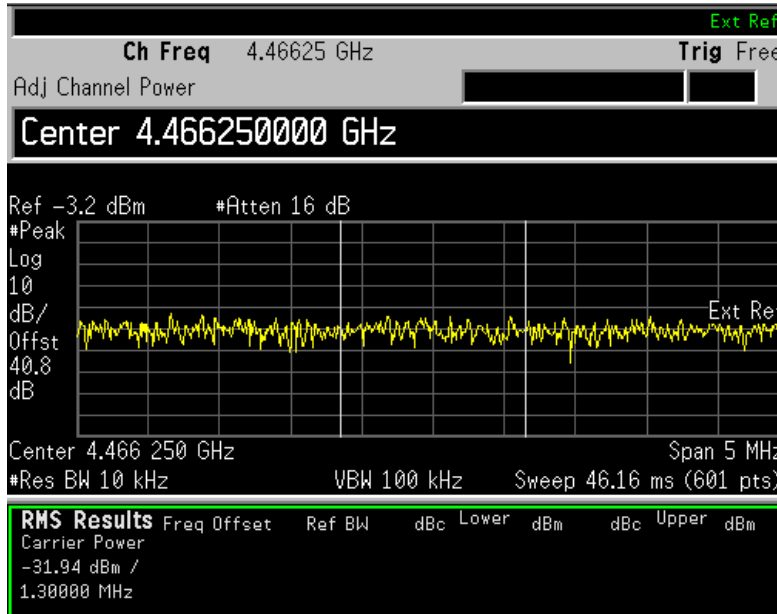




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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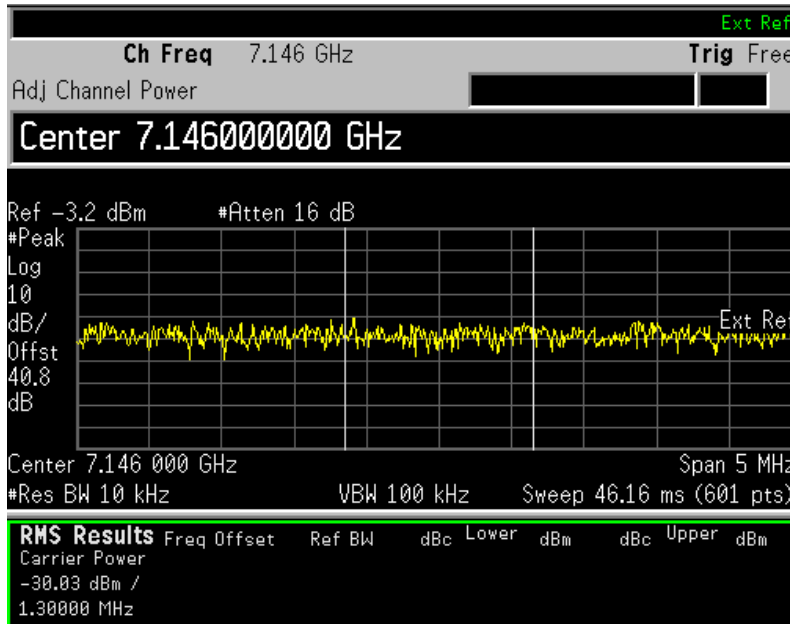
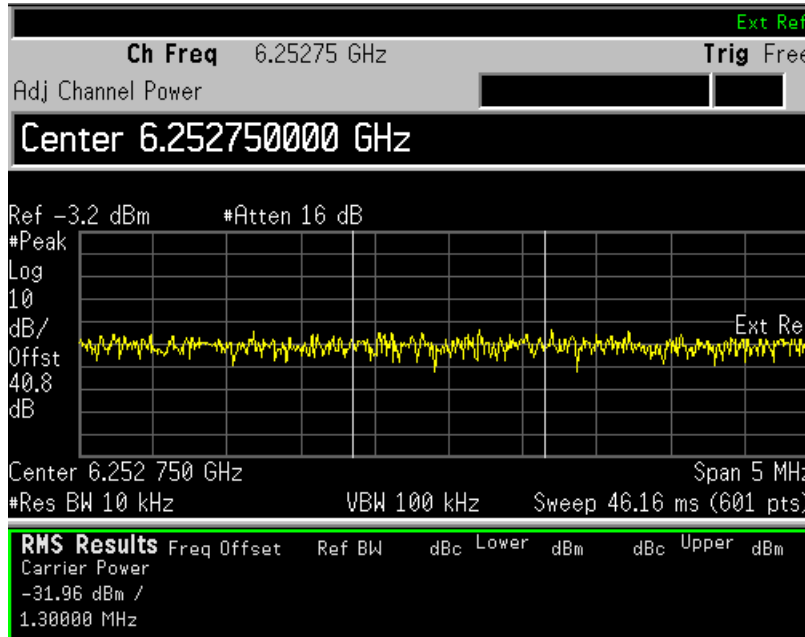




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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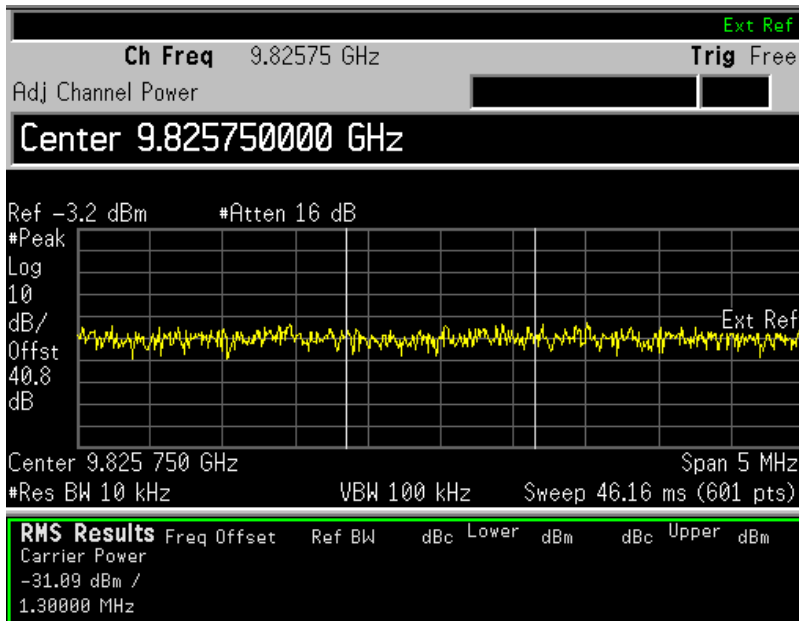
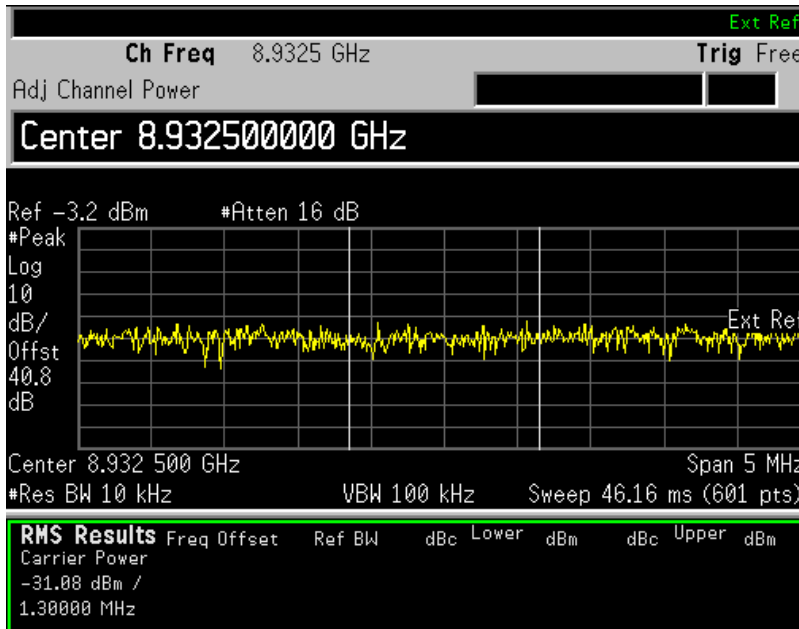




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SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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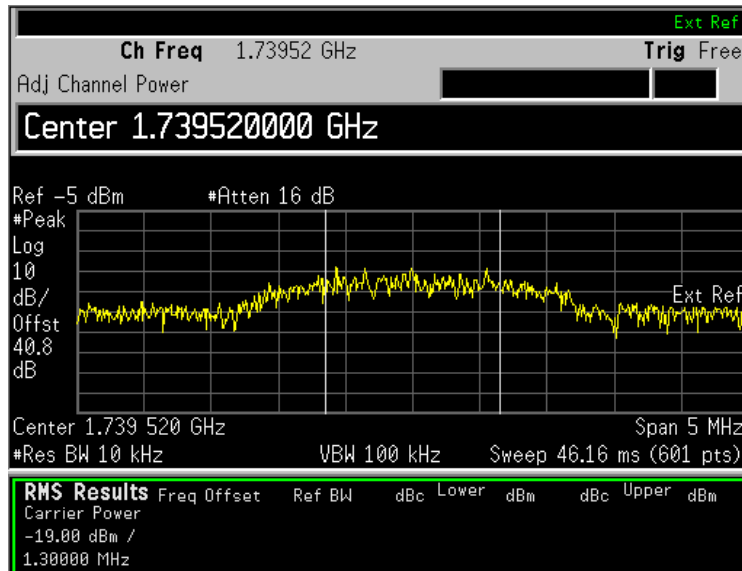
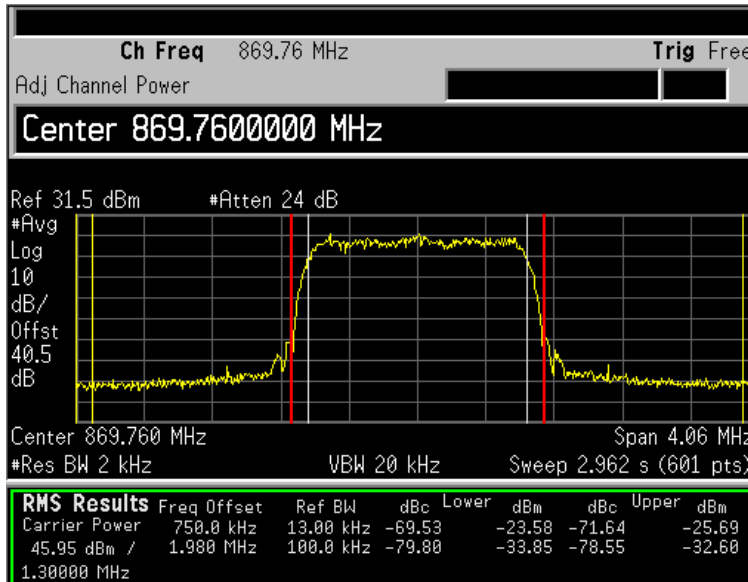
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 40W Channel 1015 – 869.76 MHz – 16QAM

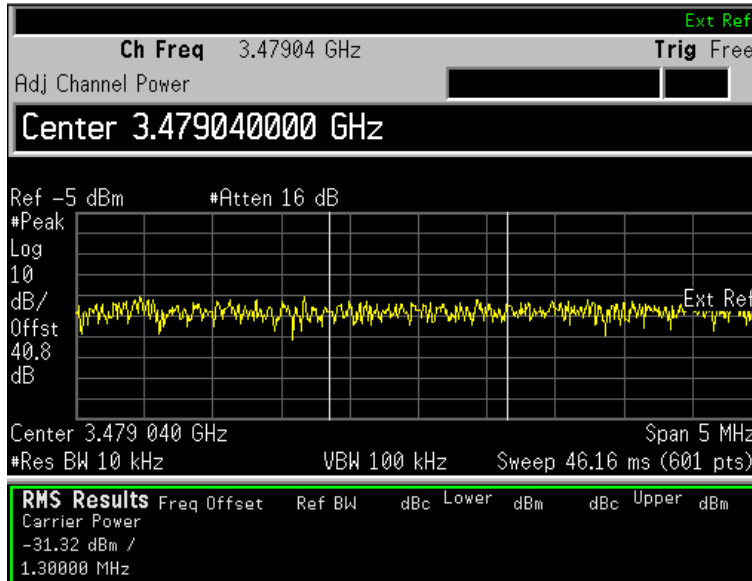
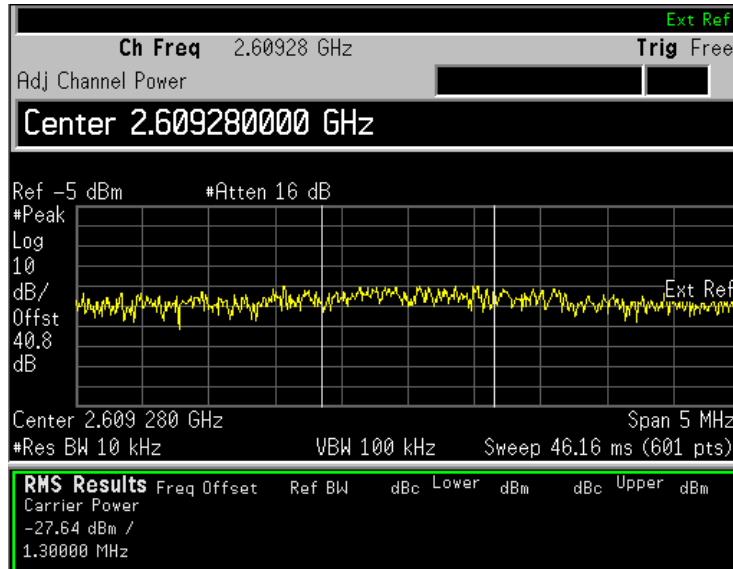




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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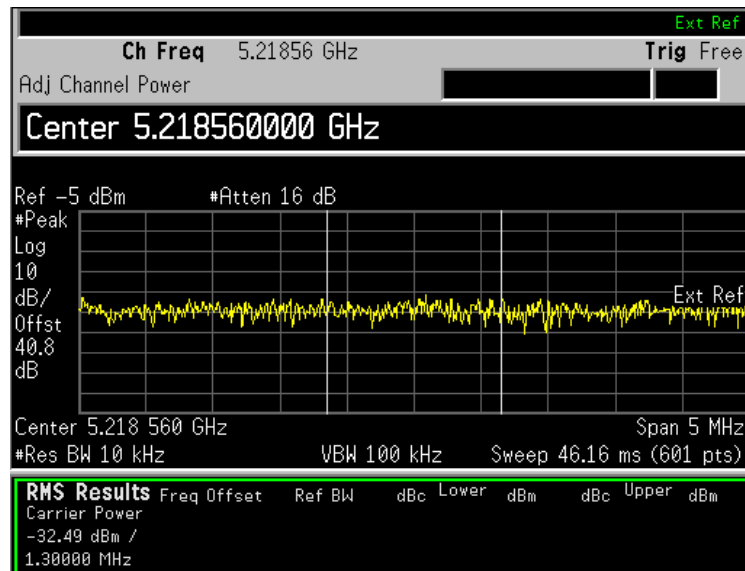
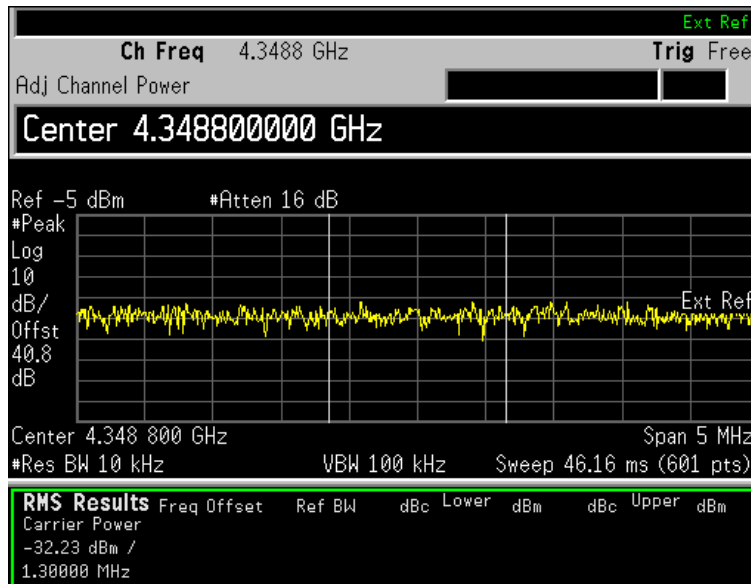




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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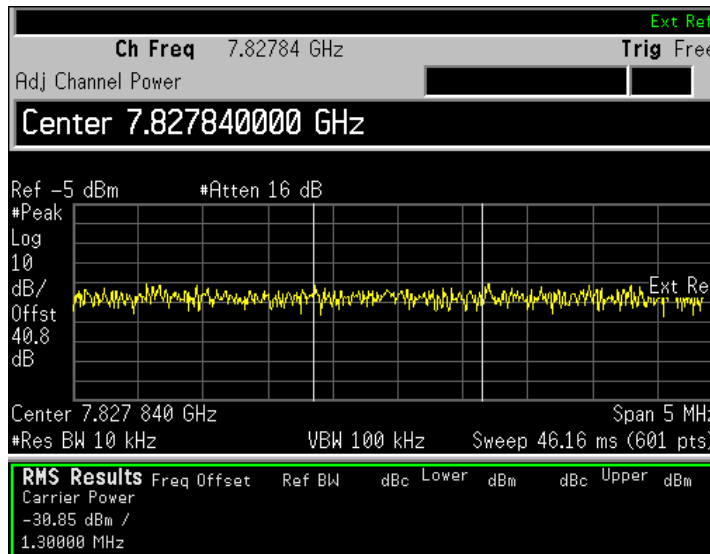
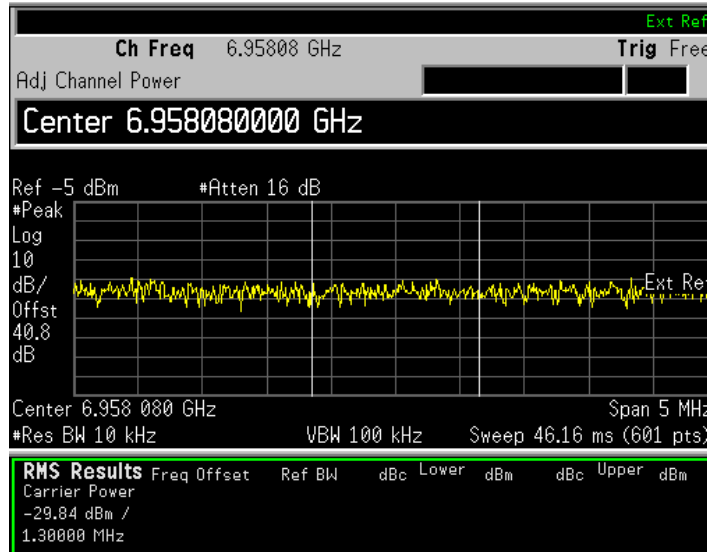




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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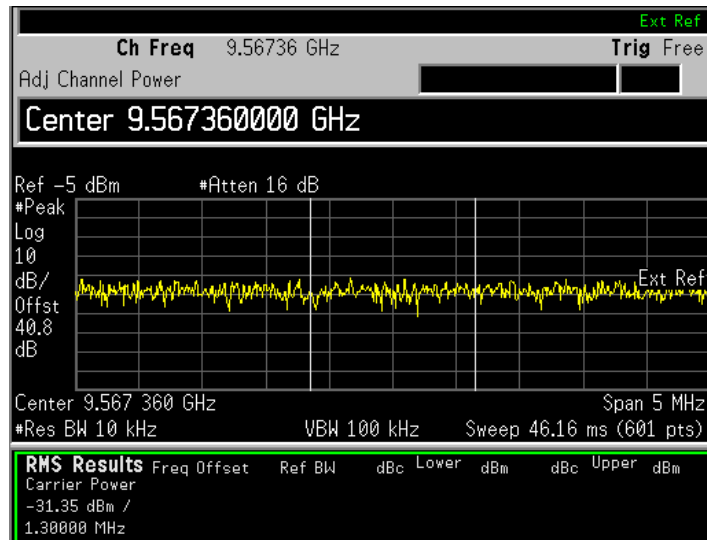
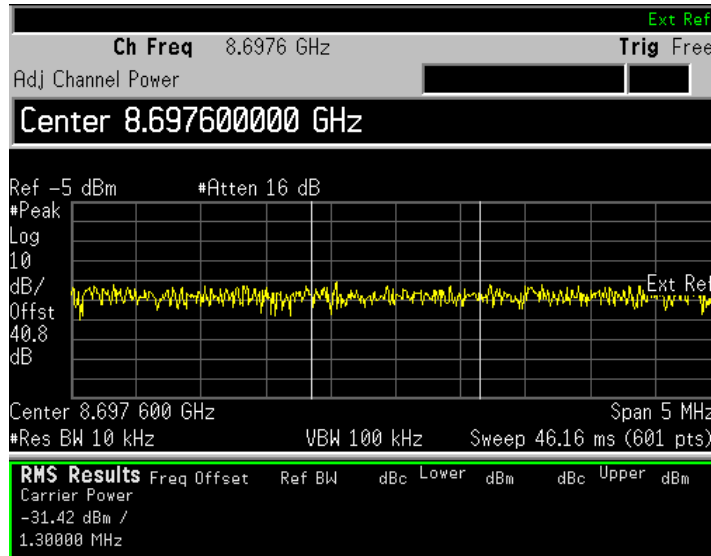




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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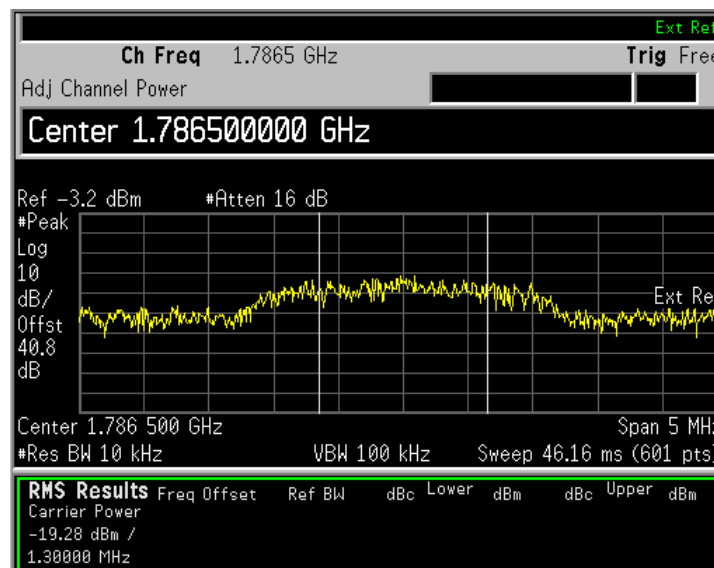
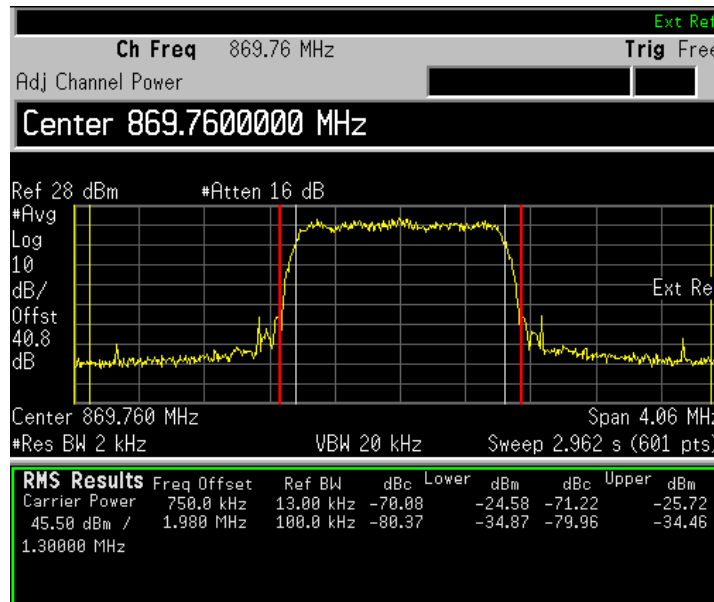
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 40W Channel 1015 – 869.76 MHz – 8 PSK

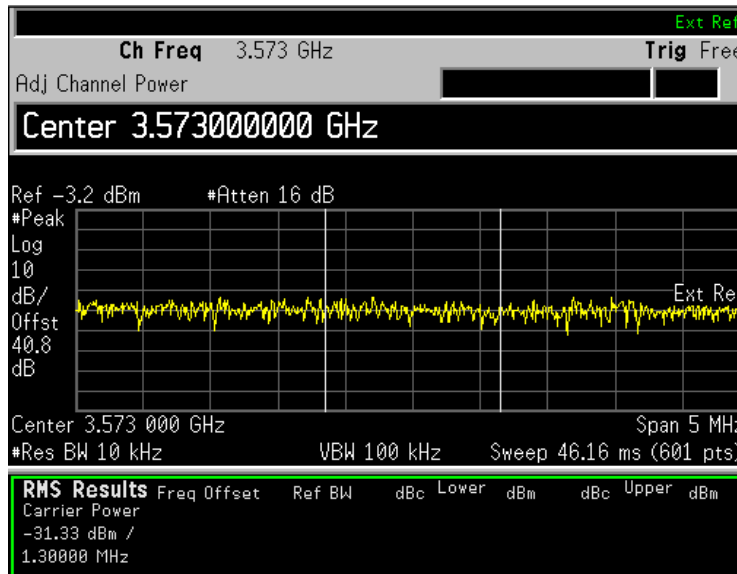
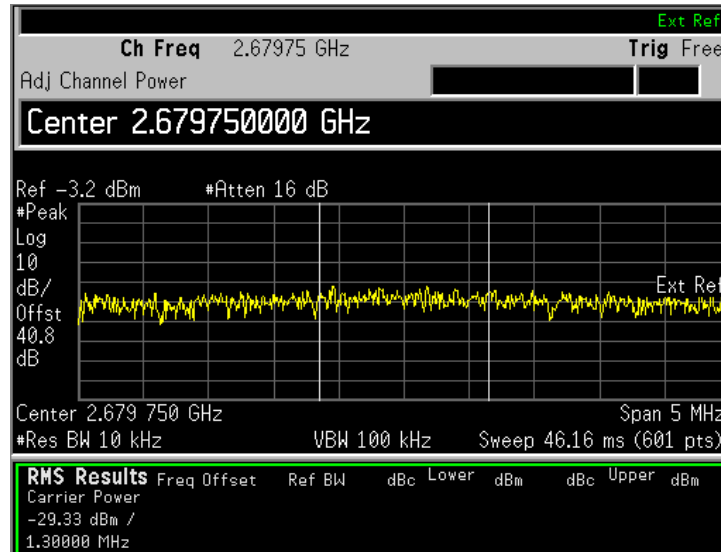




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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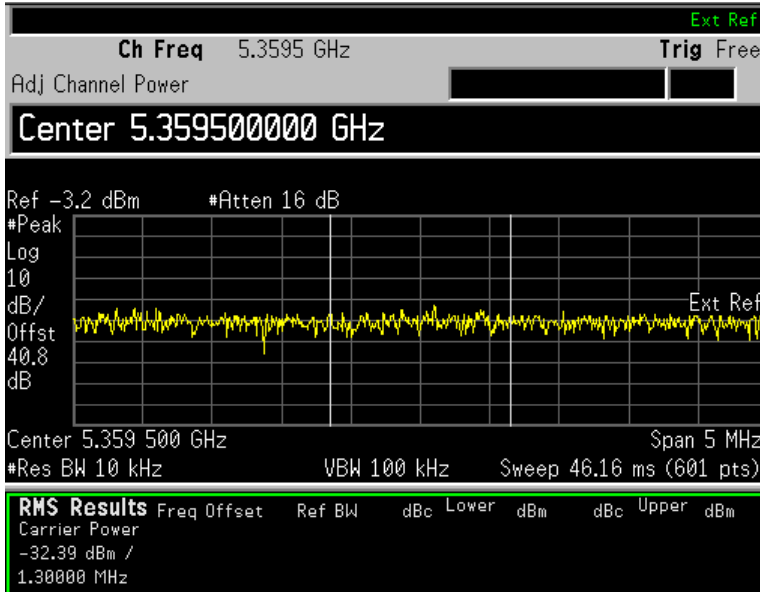
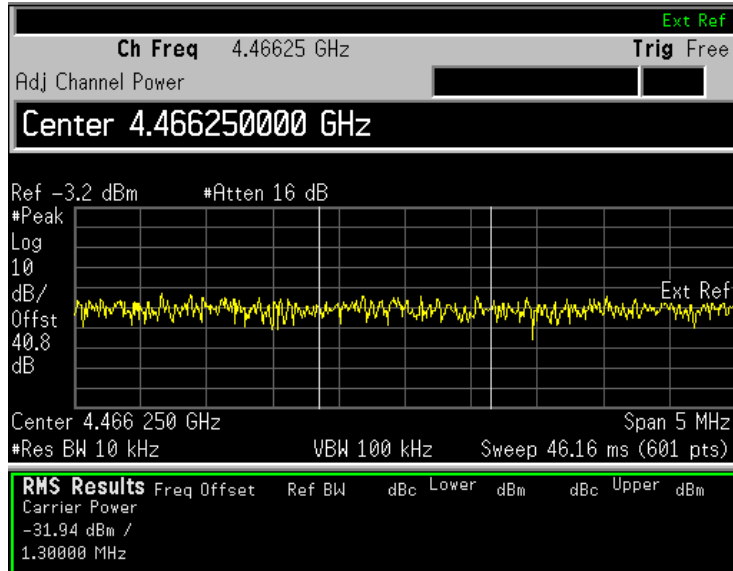




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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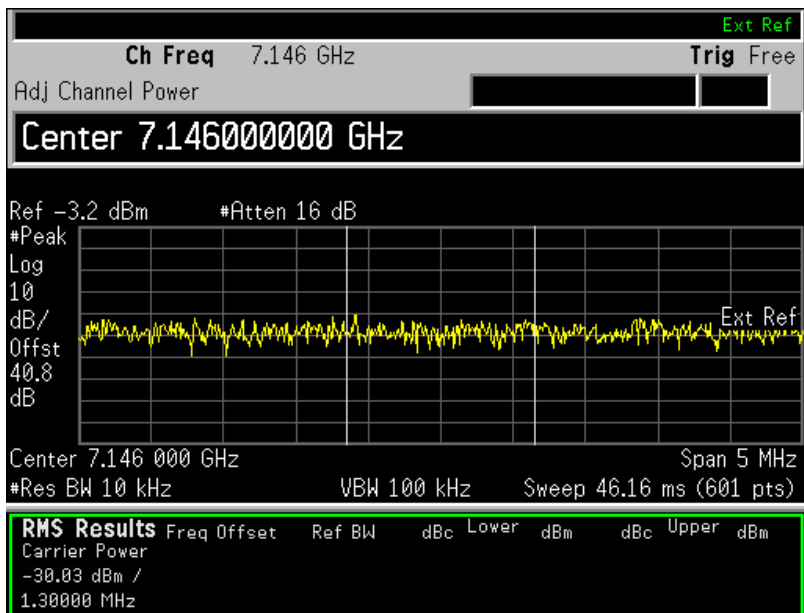
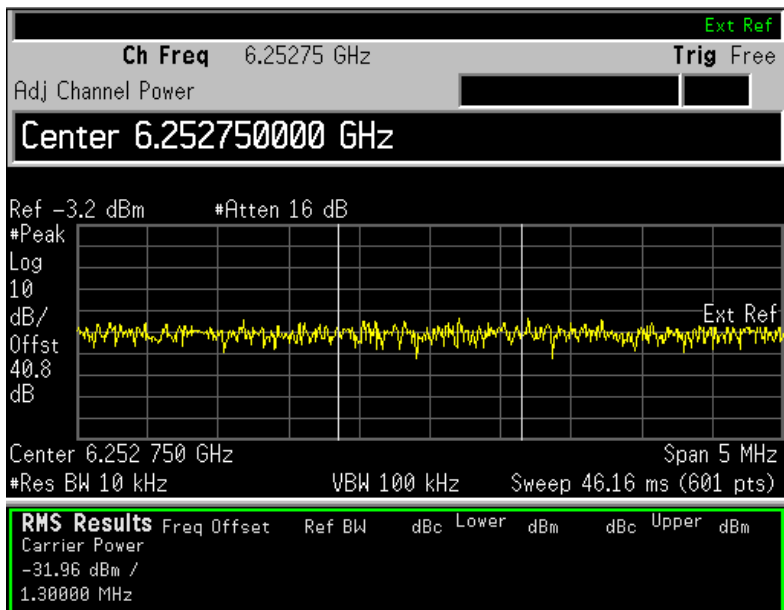




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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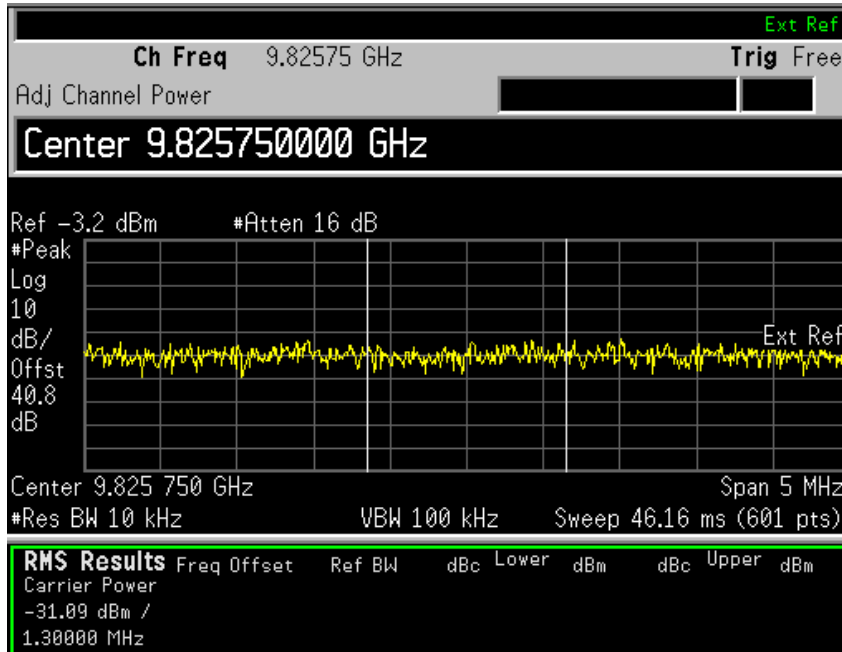
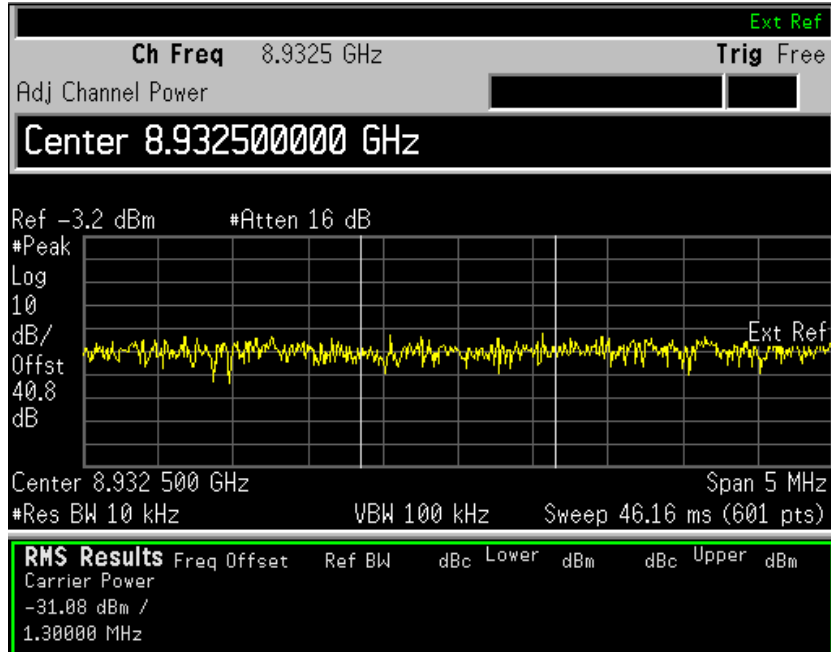




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





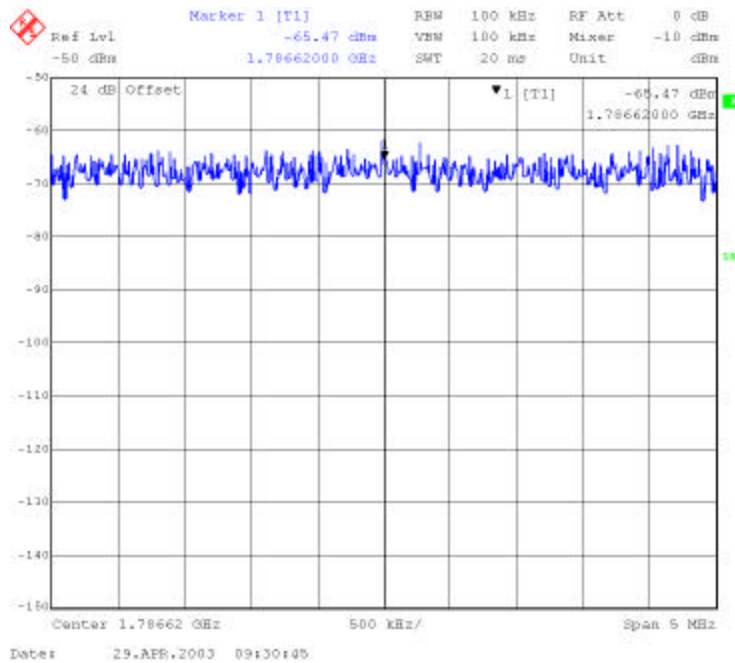
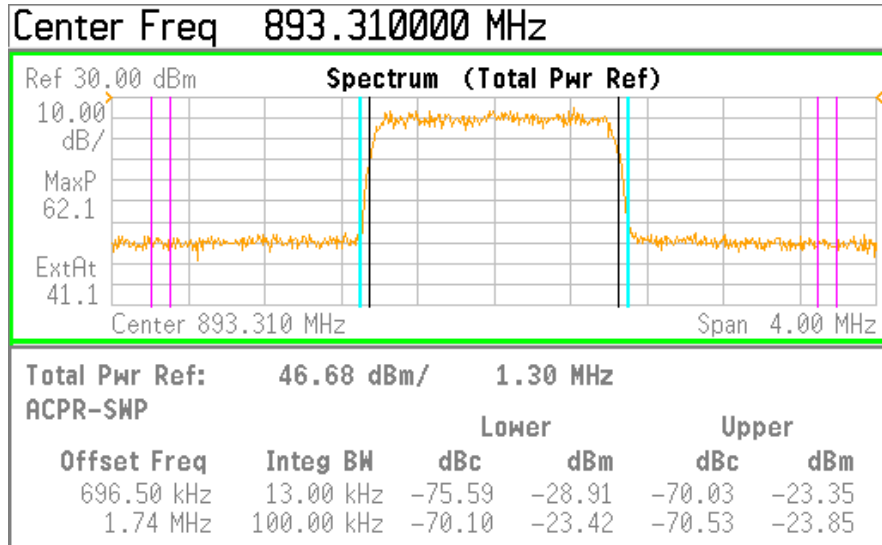
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 45W Channel 777 – 893.31 MHz

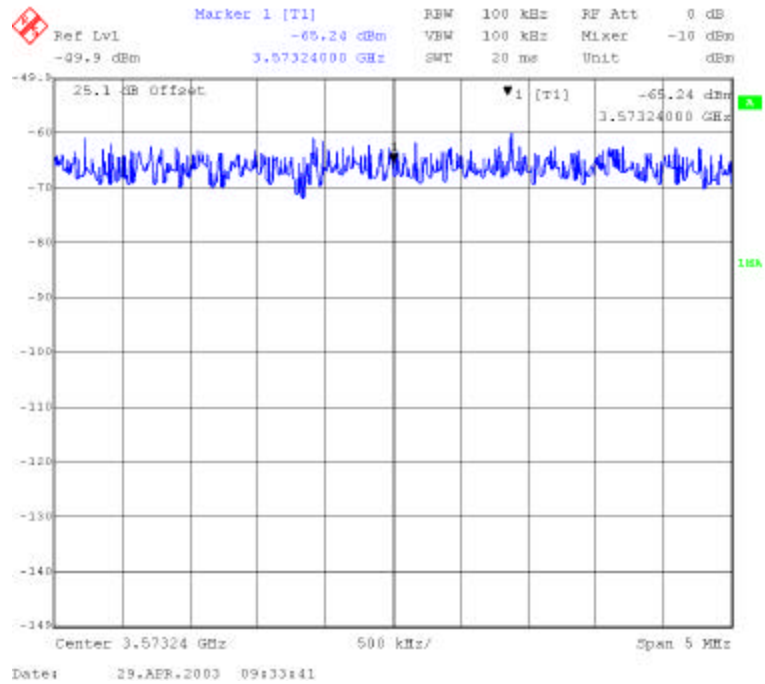
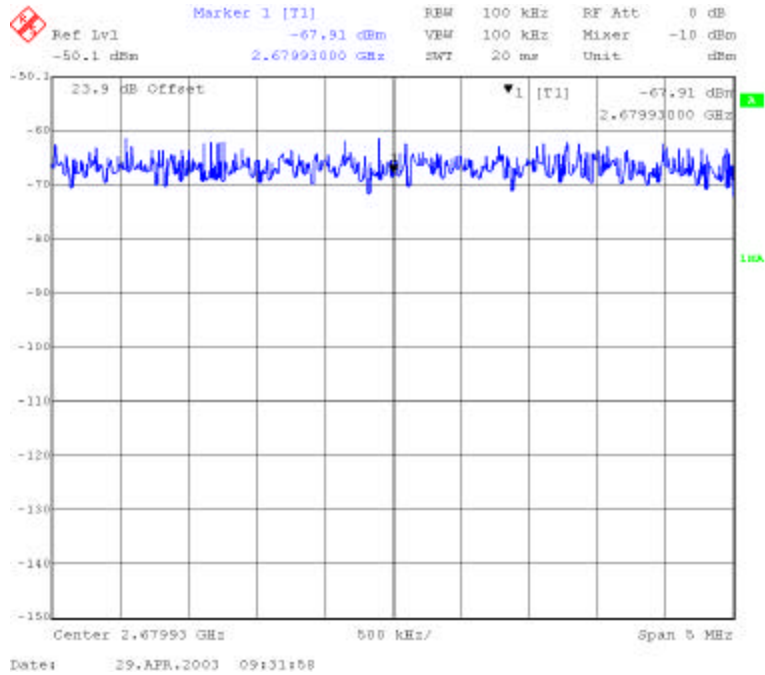




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

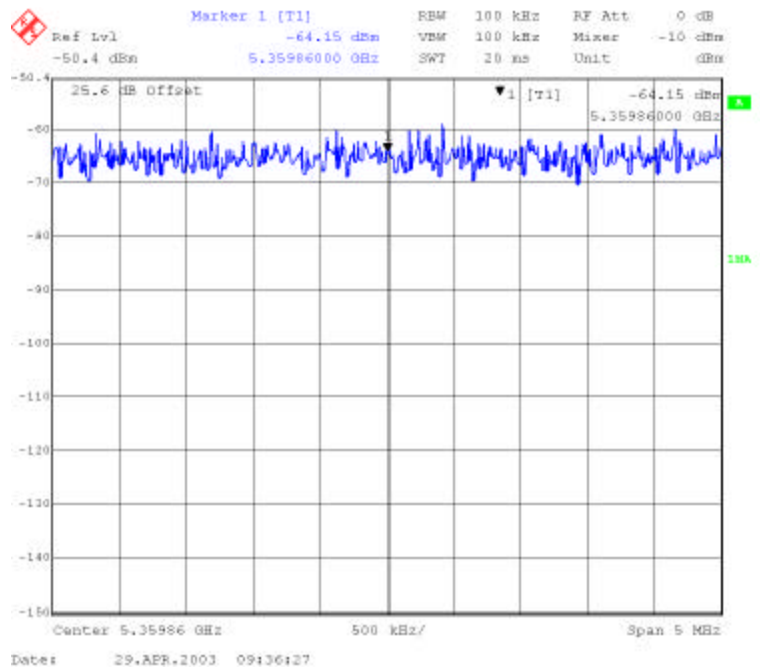
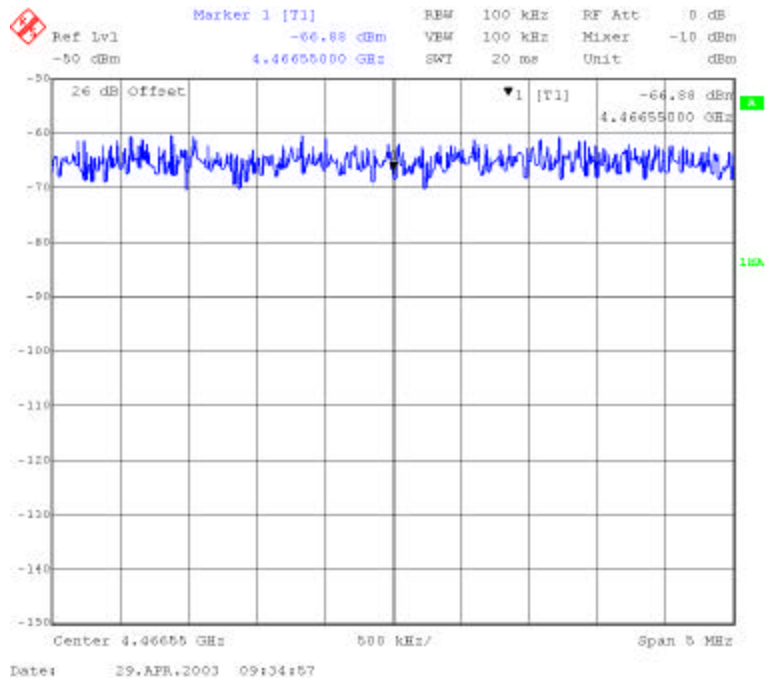




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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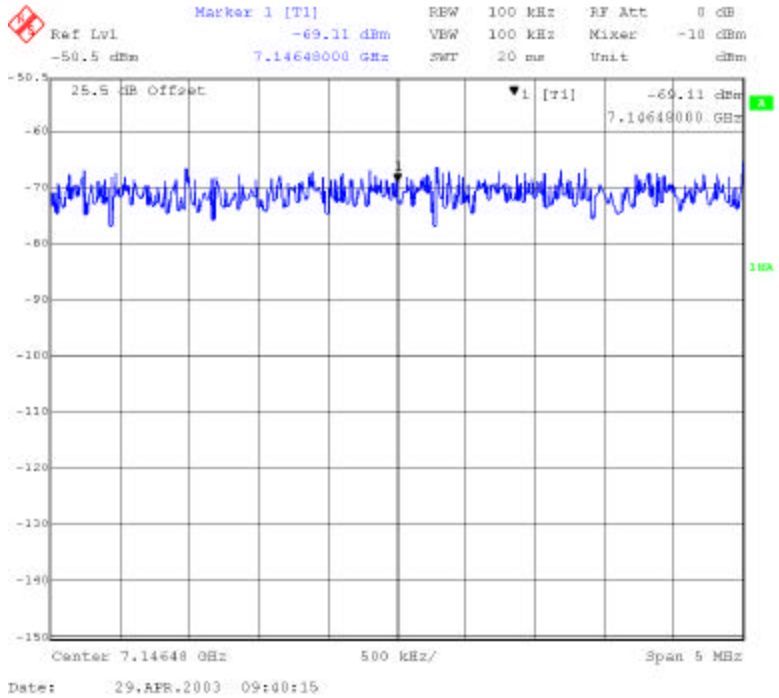
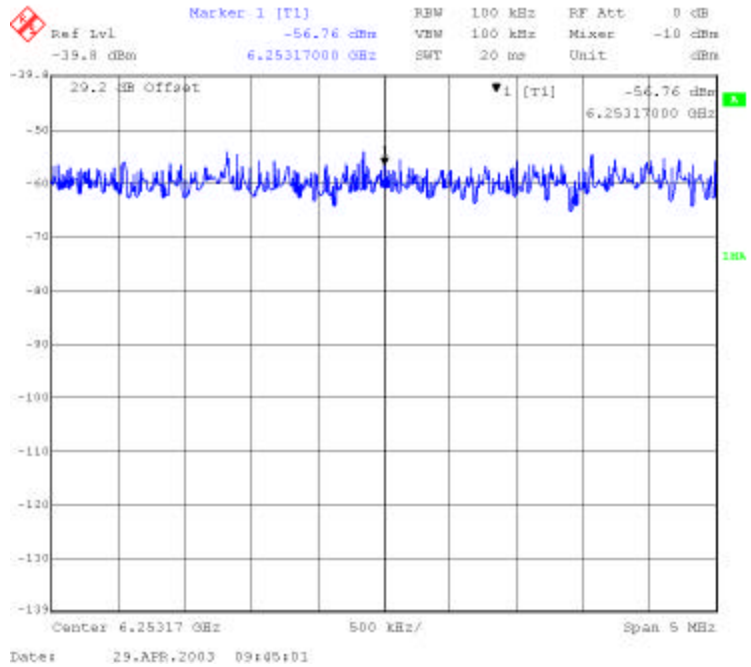




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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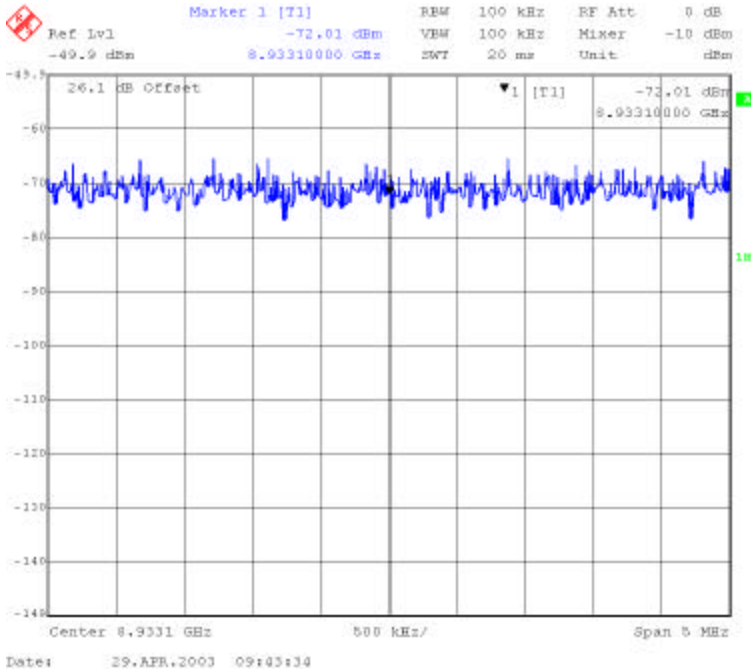
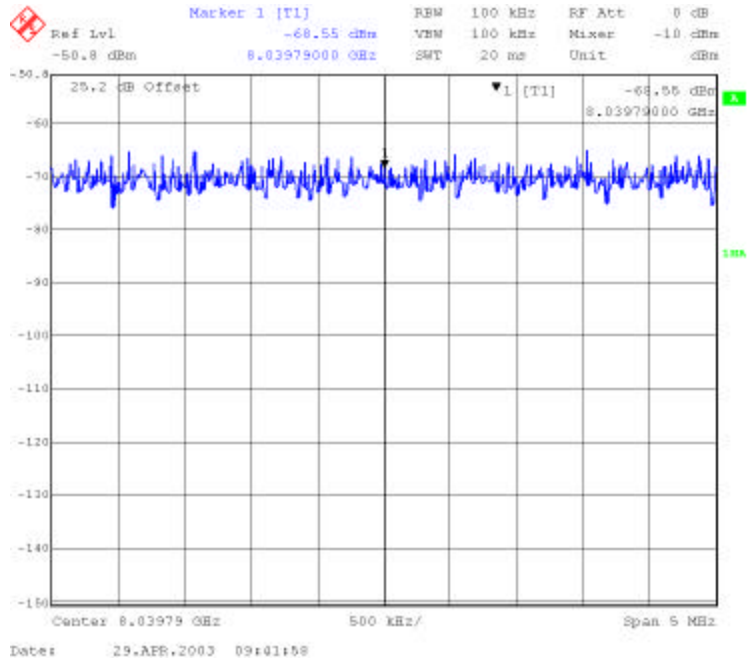




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





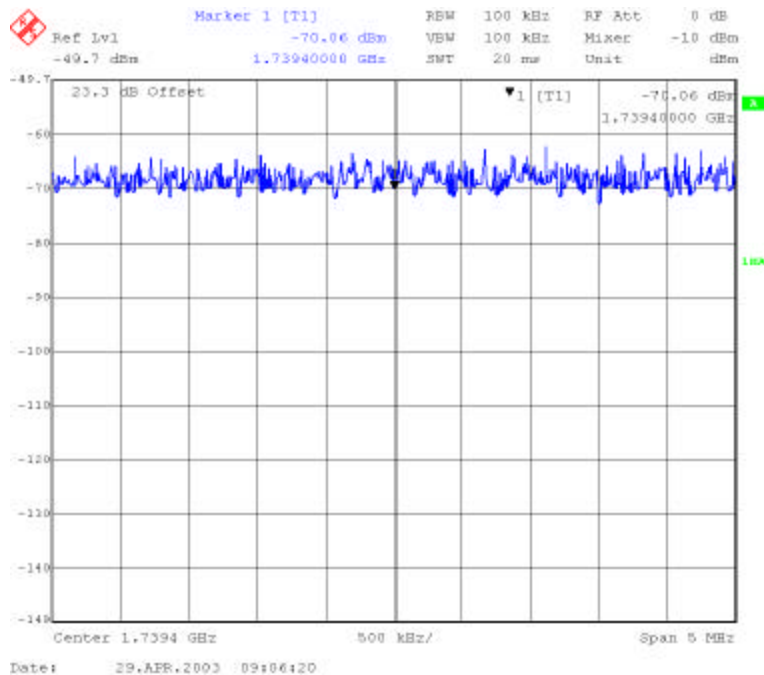
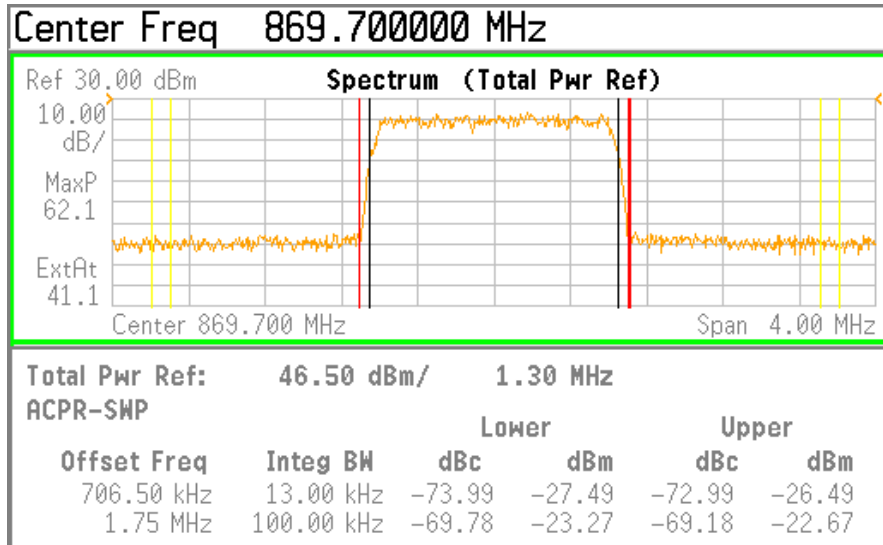
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – 45W Channel 1013 – 869.70 MHz

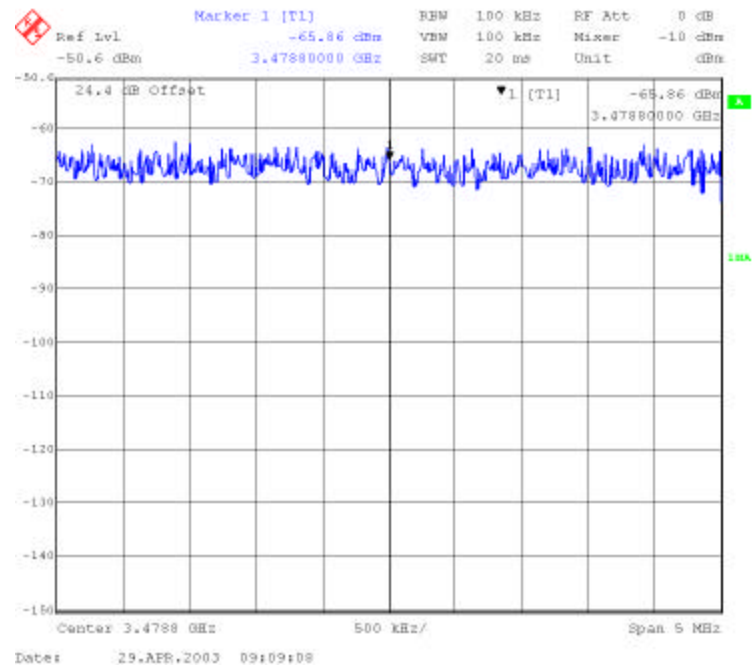
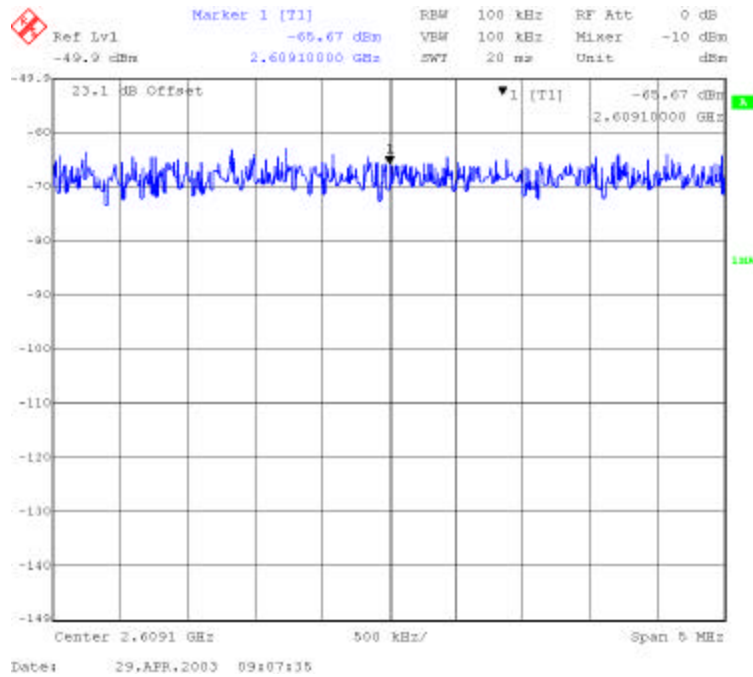




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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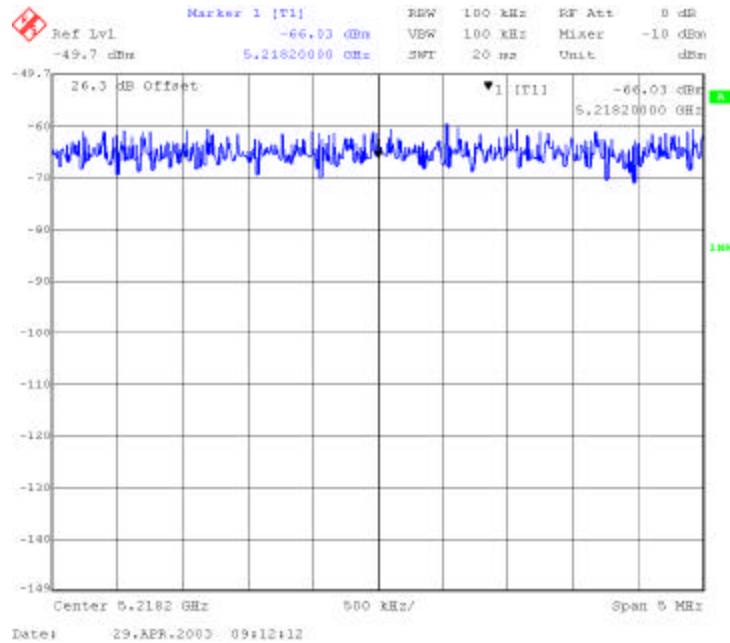
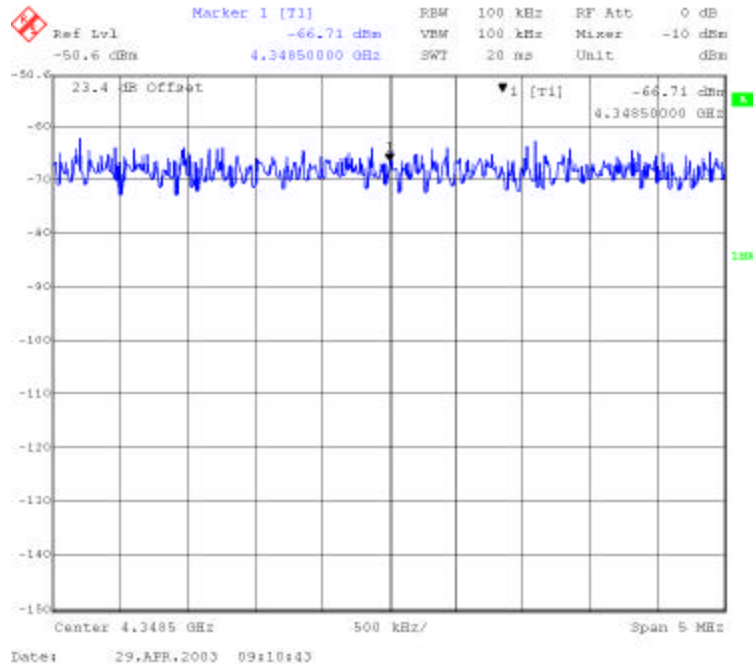




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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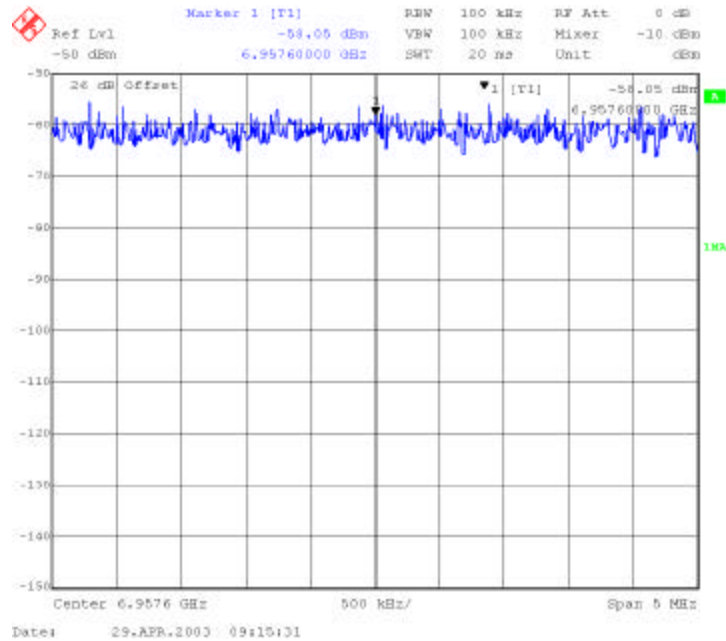
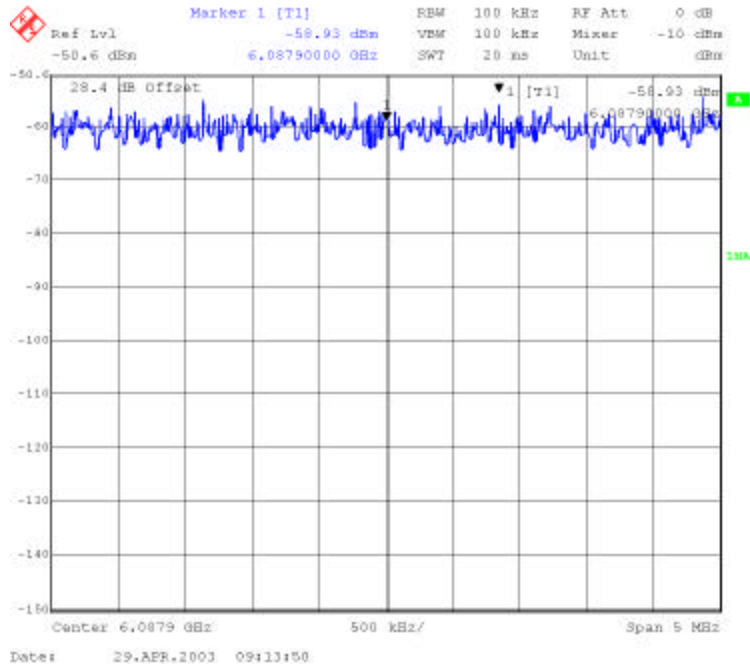




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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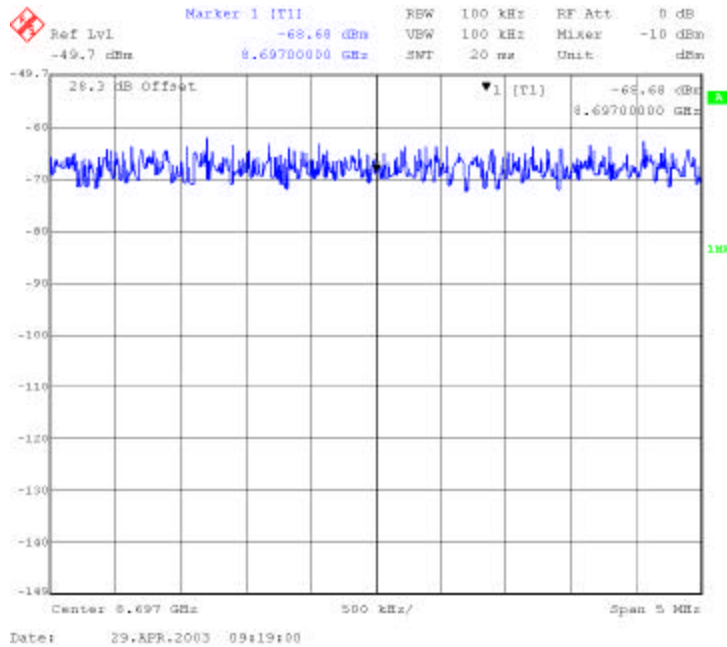
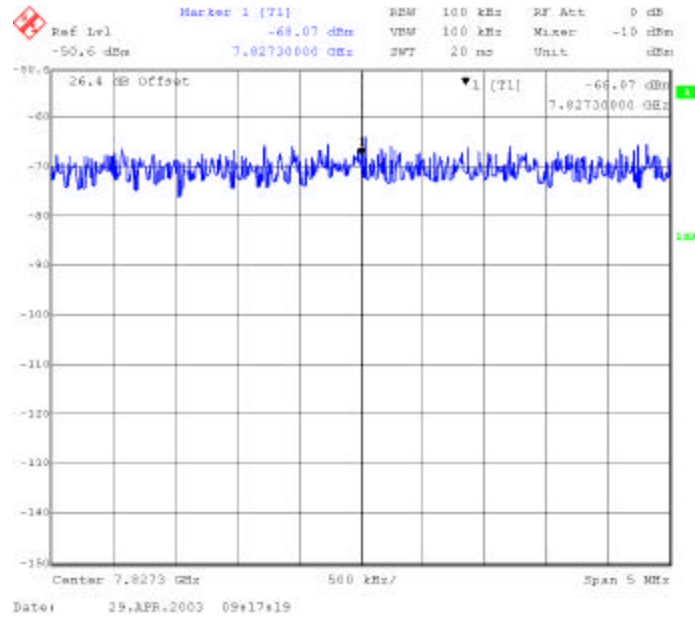




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





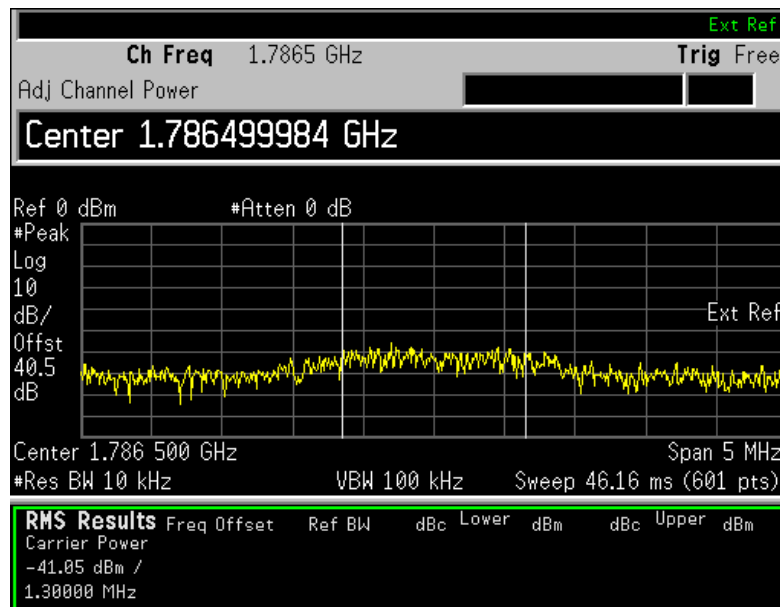
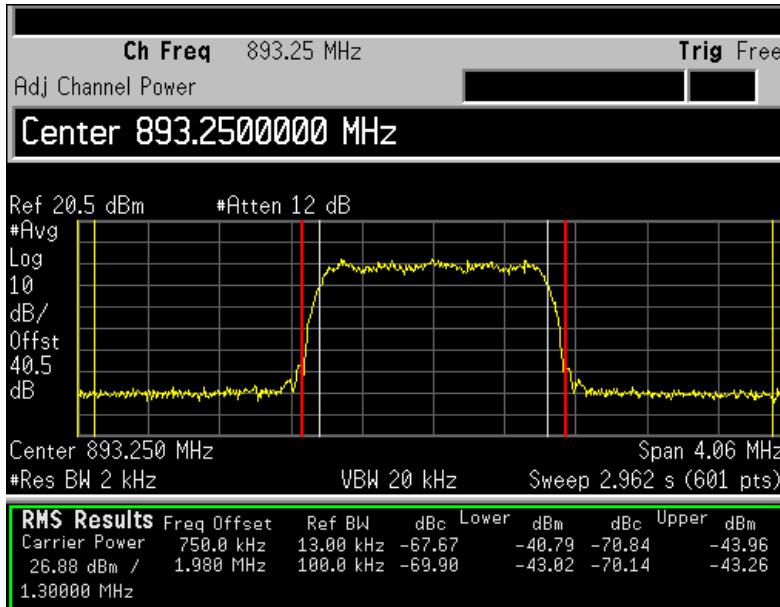
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – .45W Channel 775 – 893.25 MHz – 16QAM

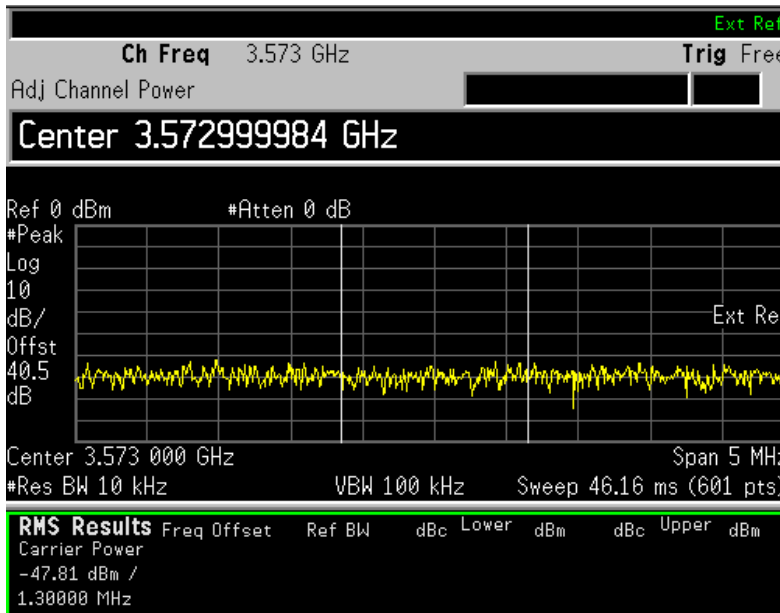
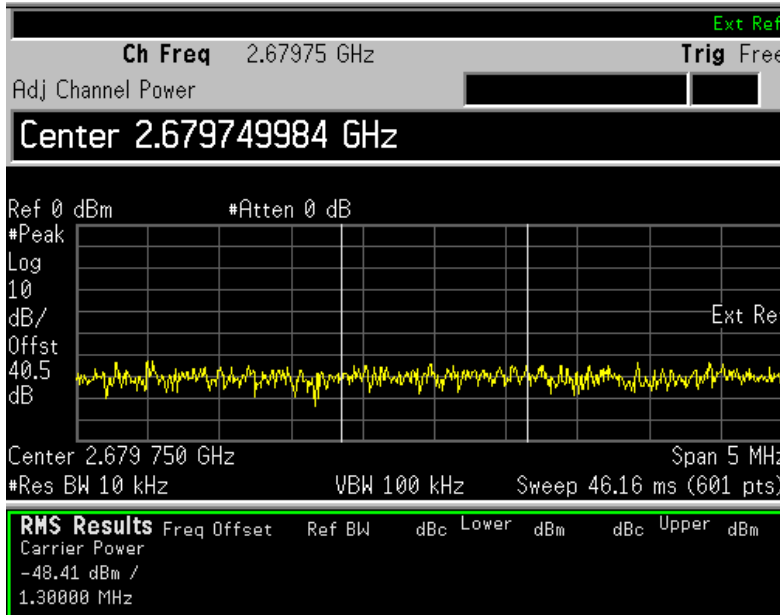




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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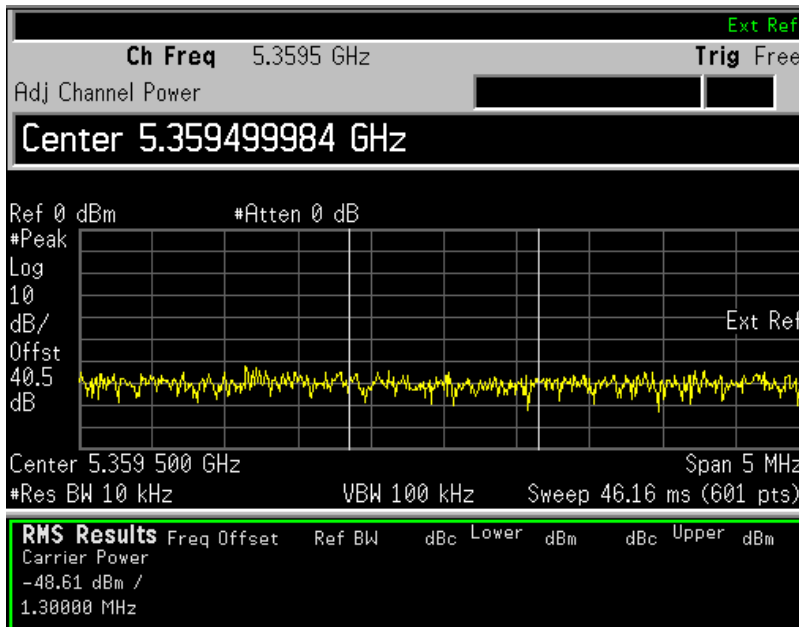
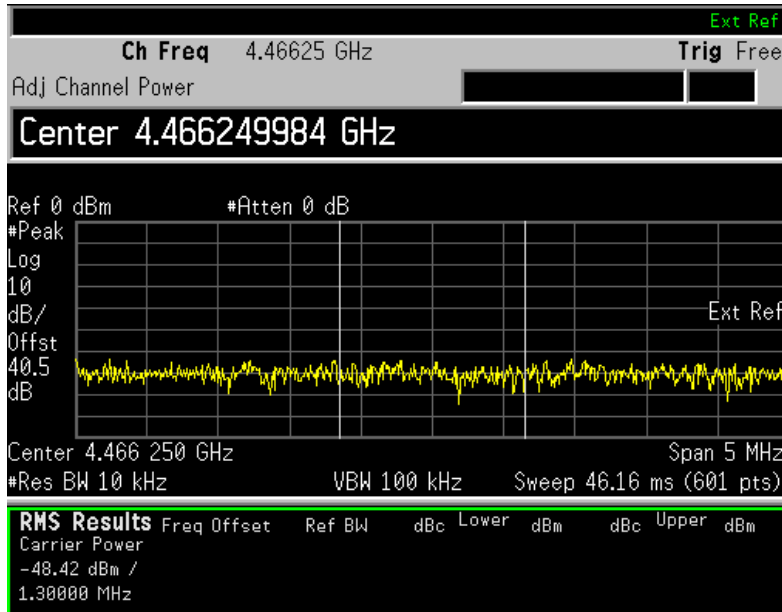




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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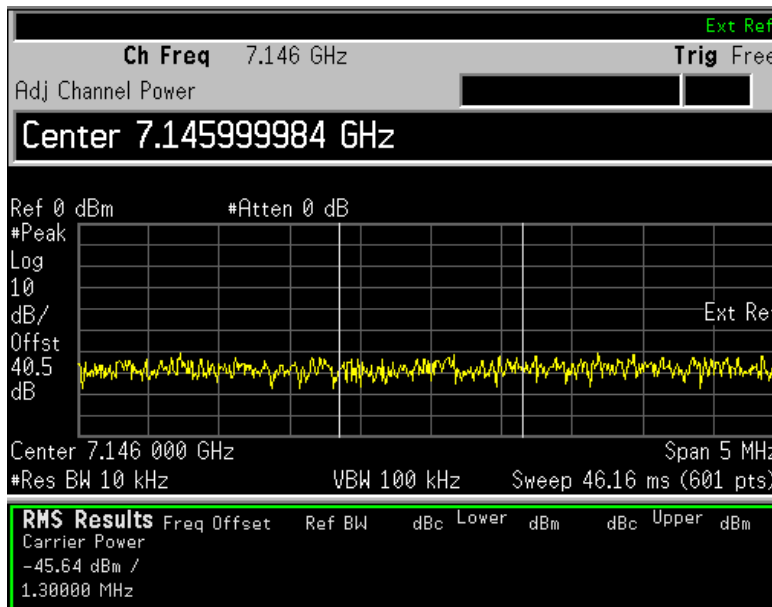
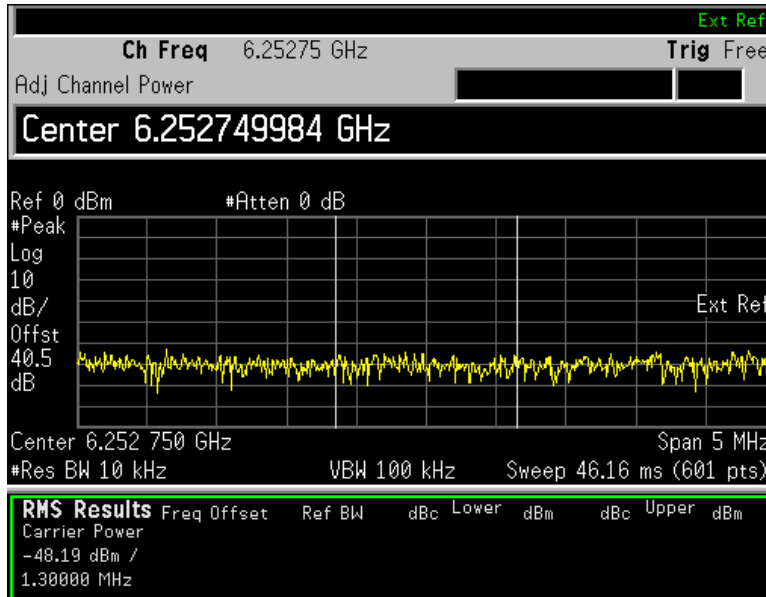




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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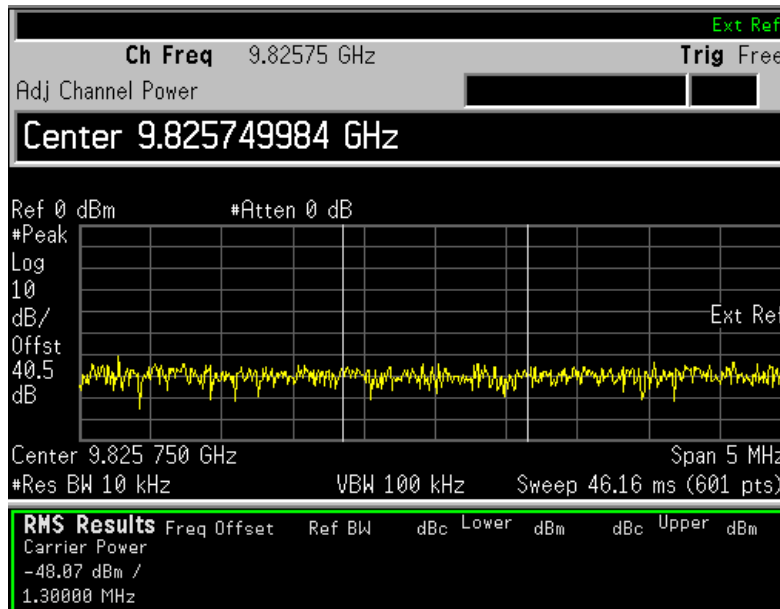
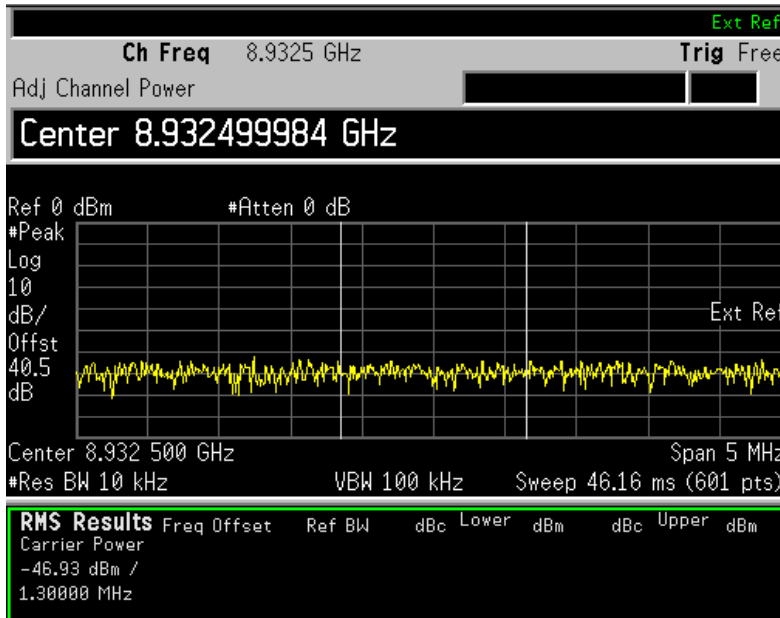




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





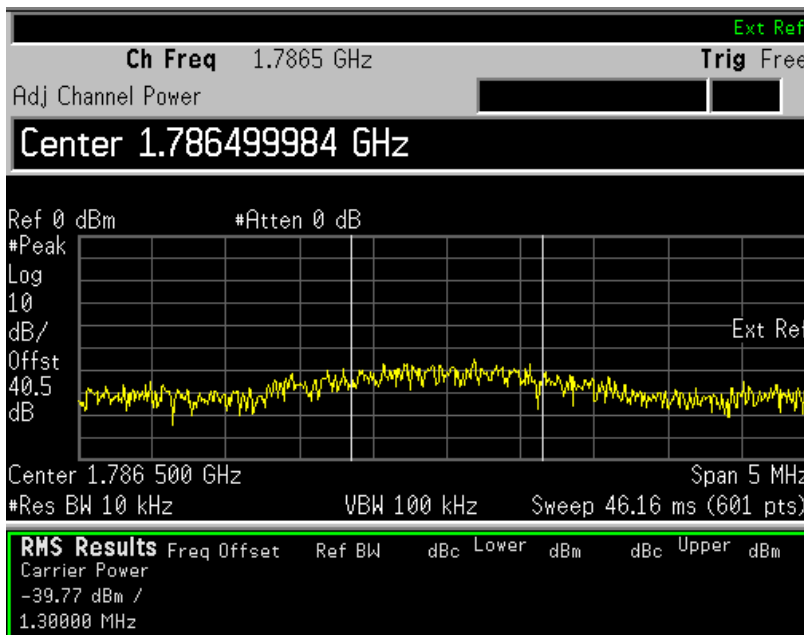
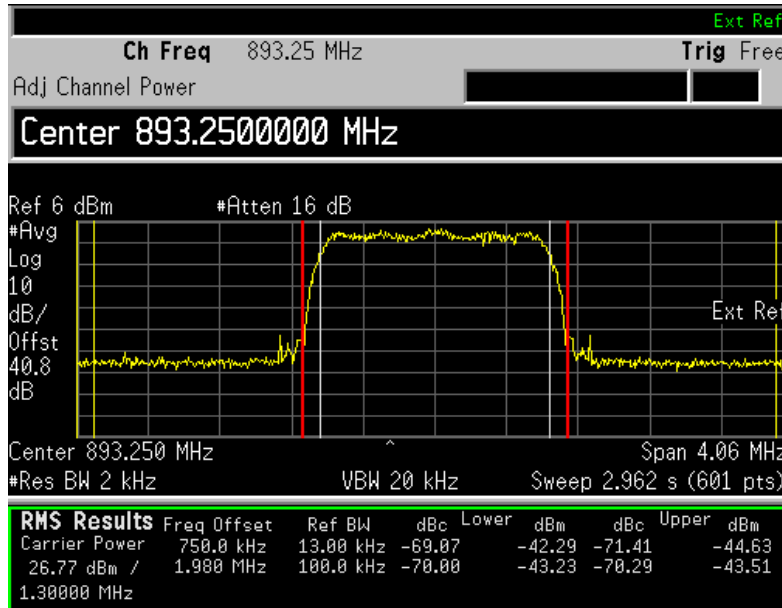
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – .45W Channel 775 – 893.25 MHz – 8 PSK

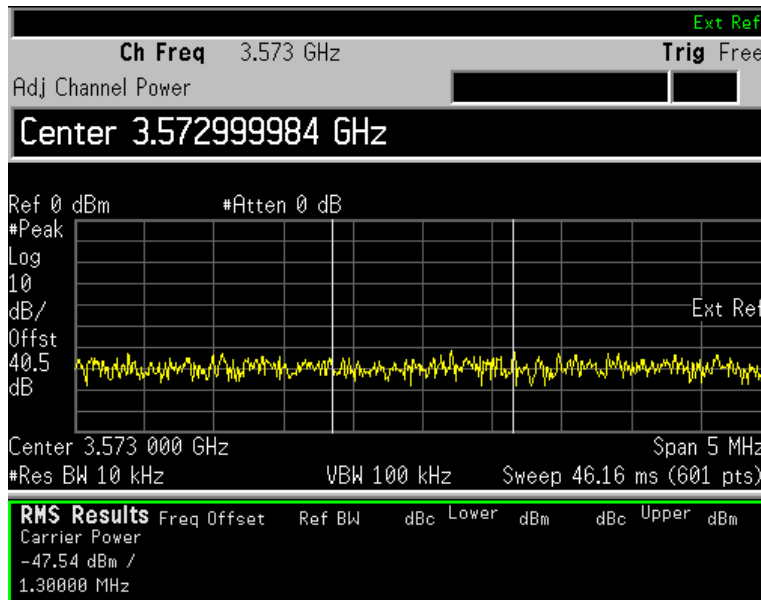
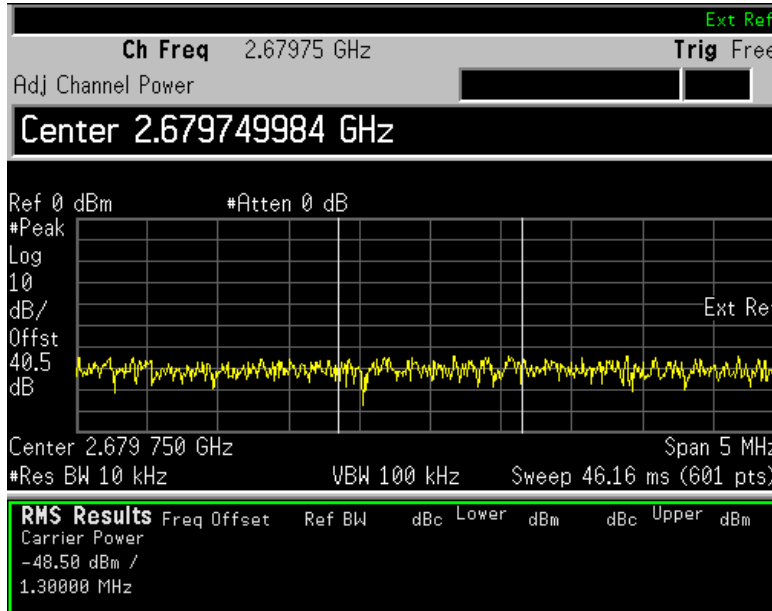




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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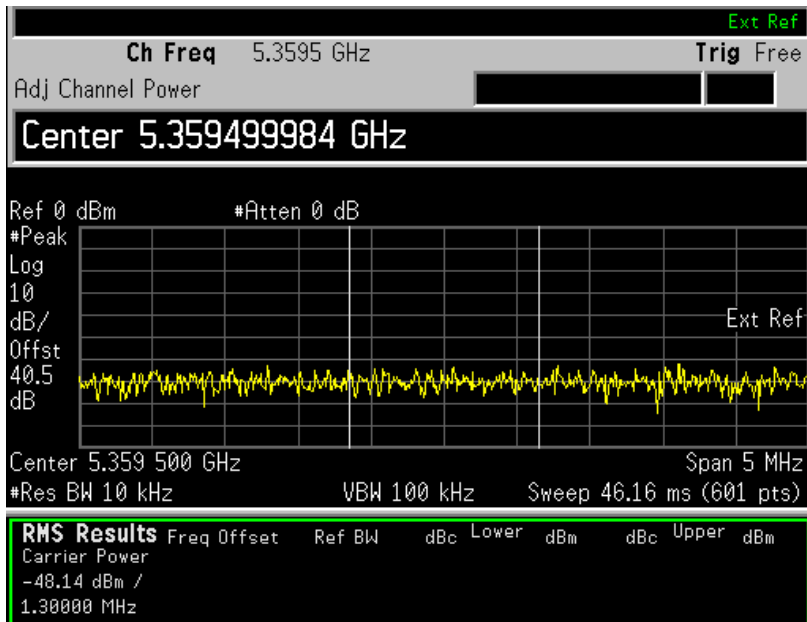
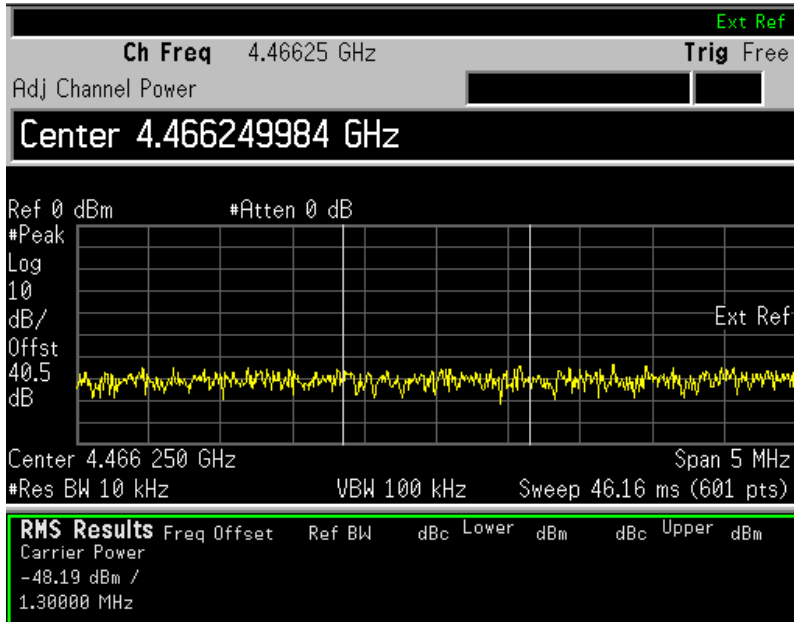




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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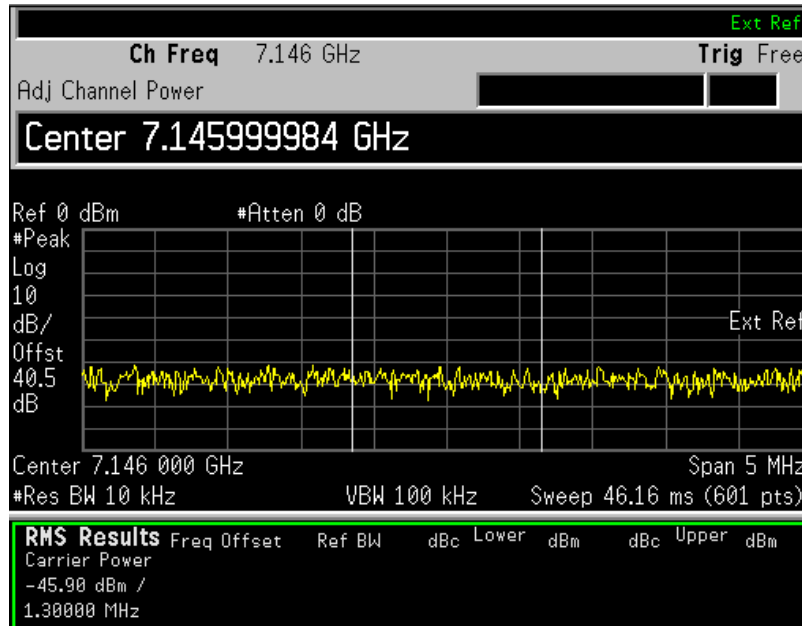
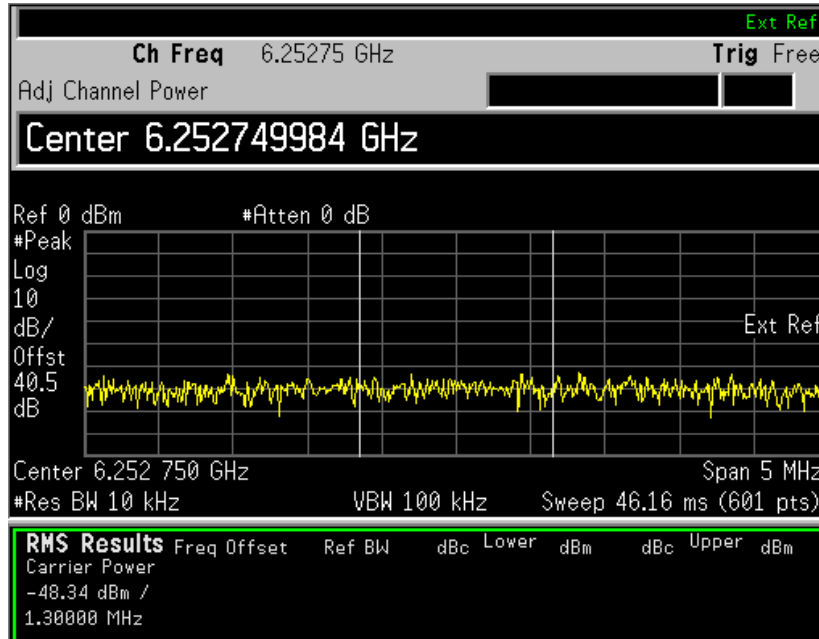




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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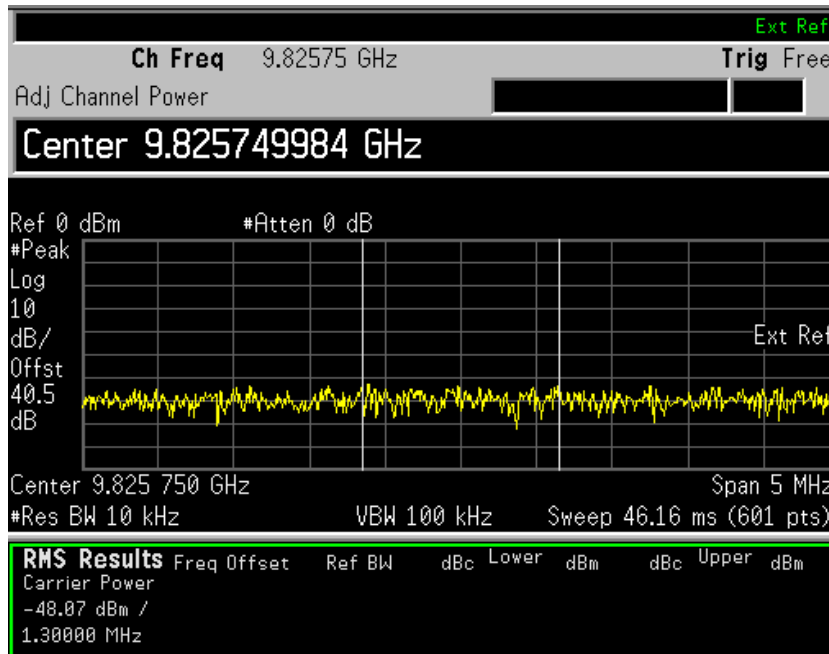
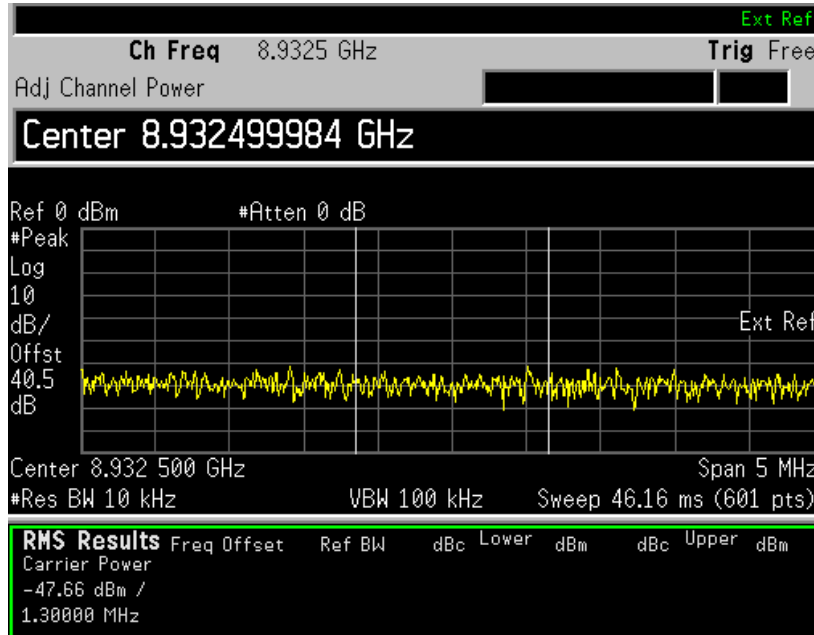




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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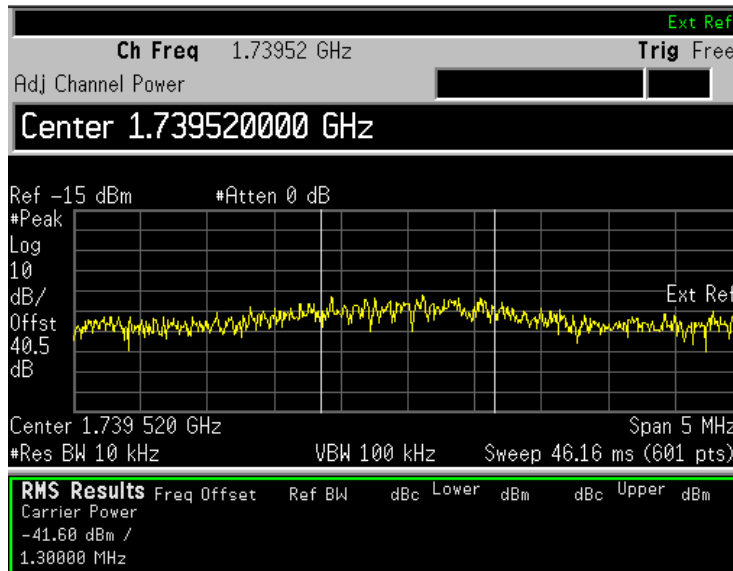
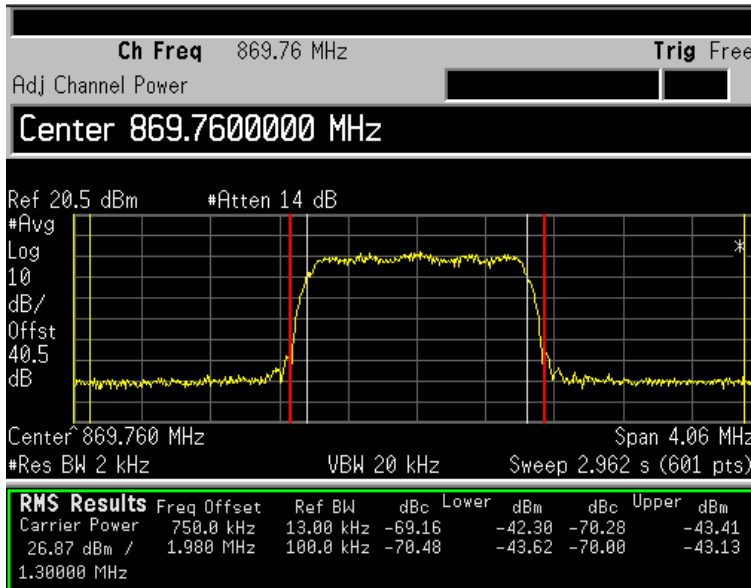


Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

Spurious Emissions at Antenna Terminal – .45W Channel 1015 – 869.76 MHz – 16QAM

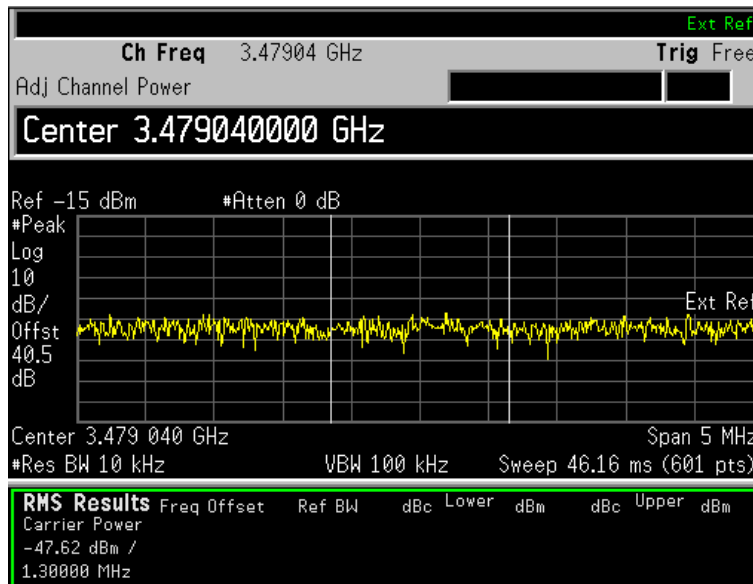
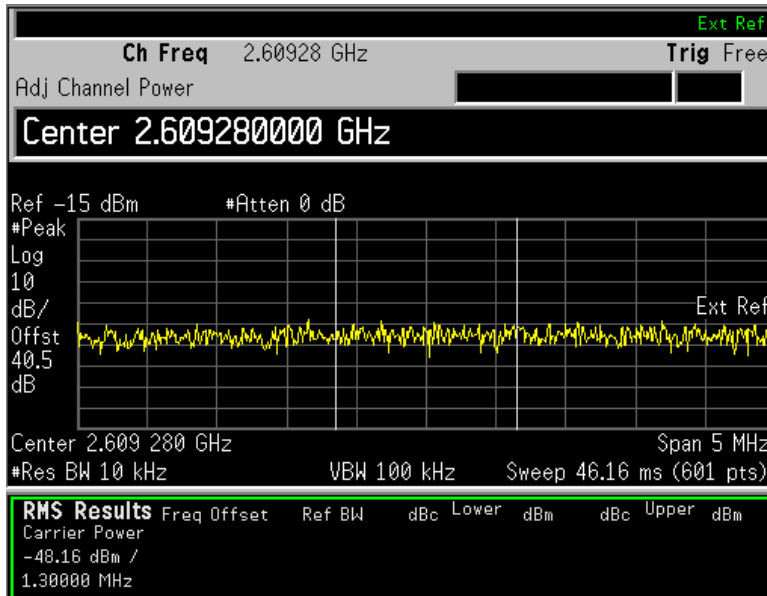




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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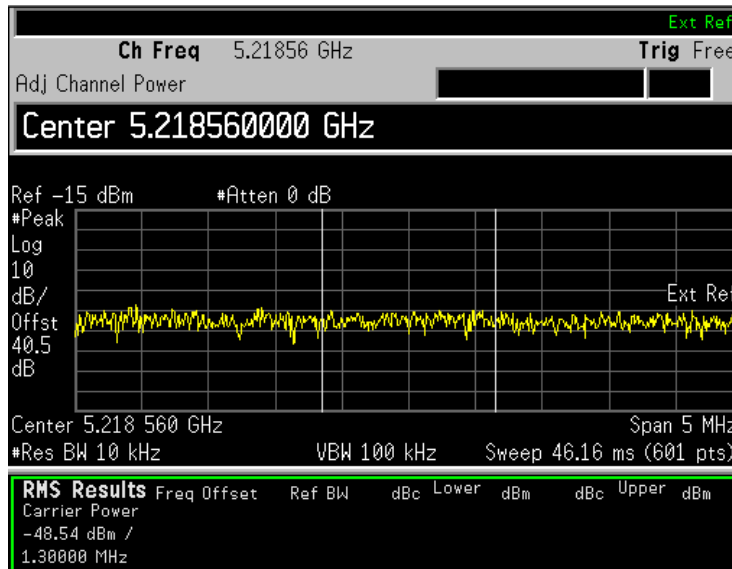
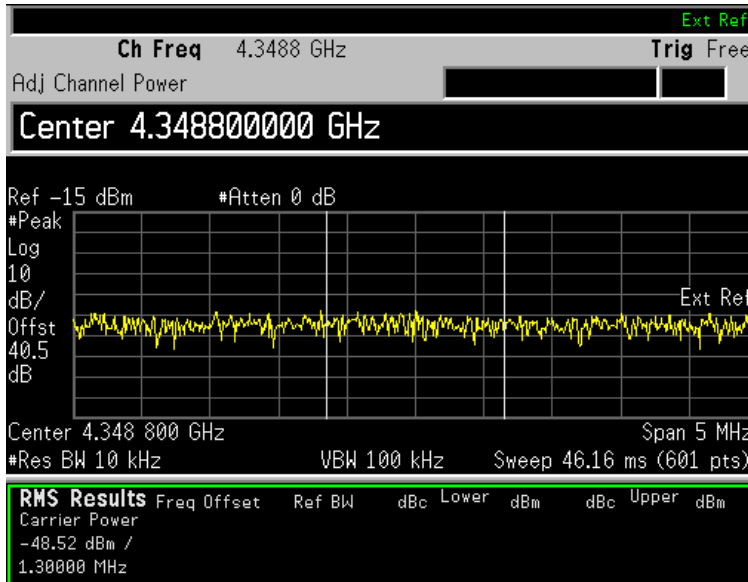




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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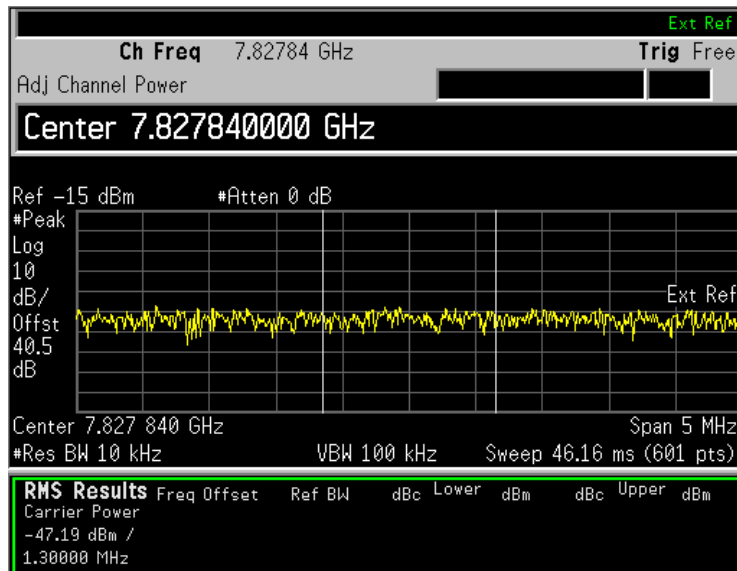
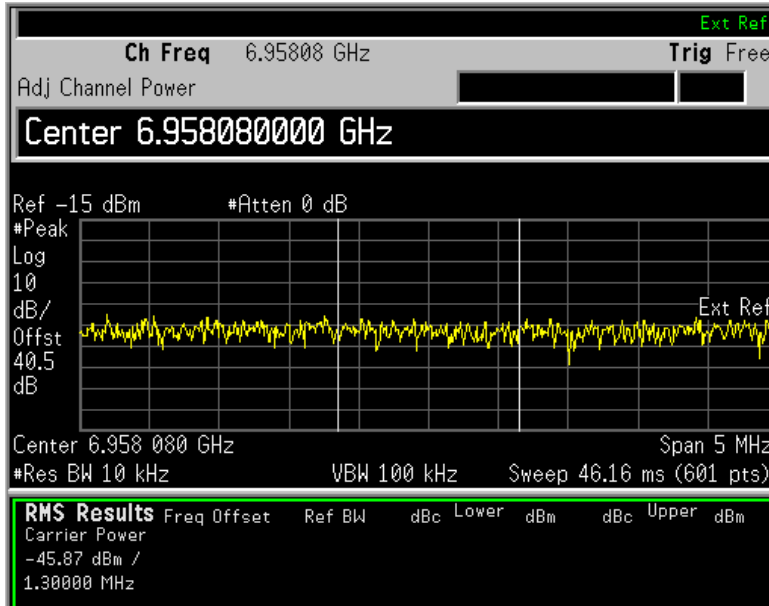




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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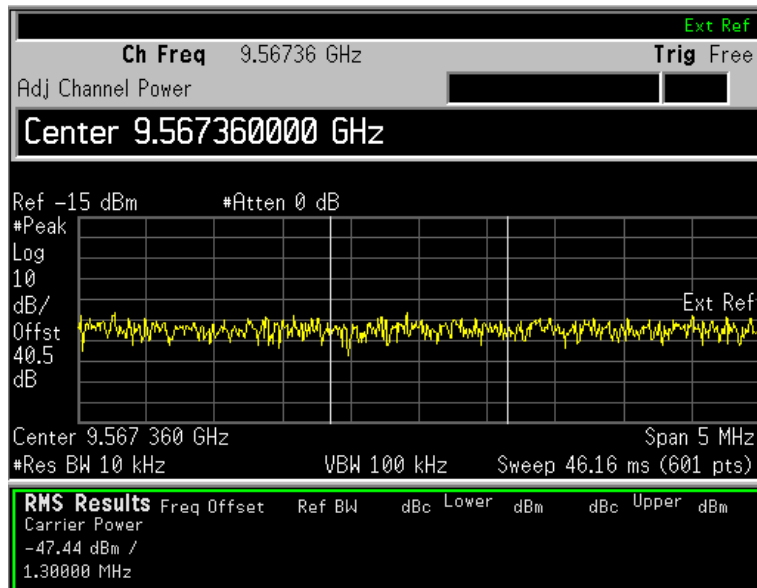
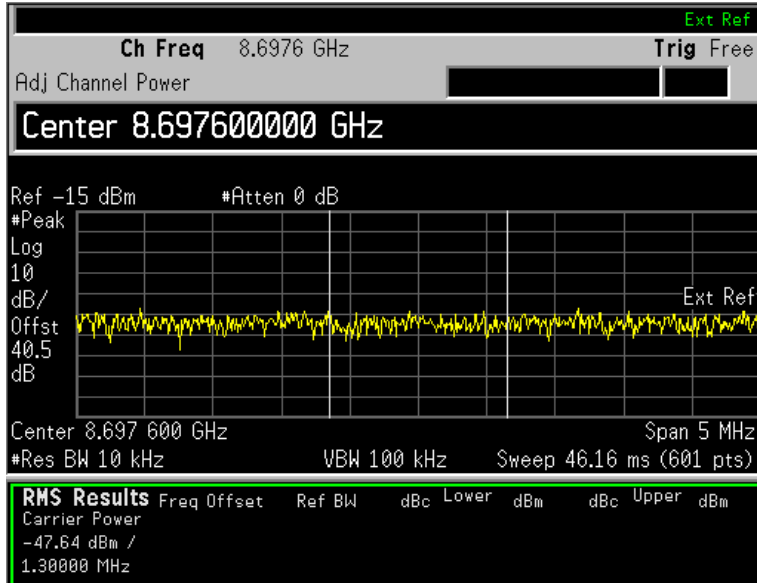




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1





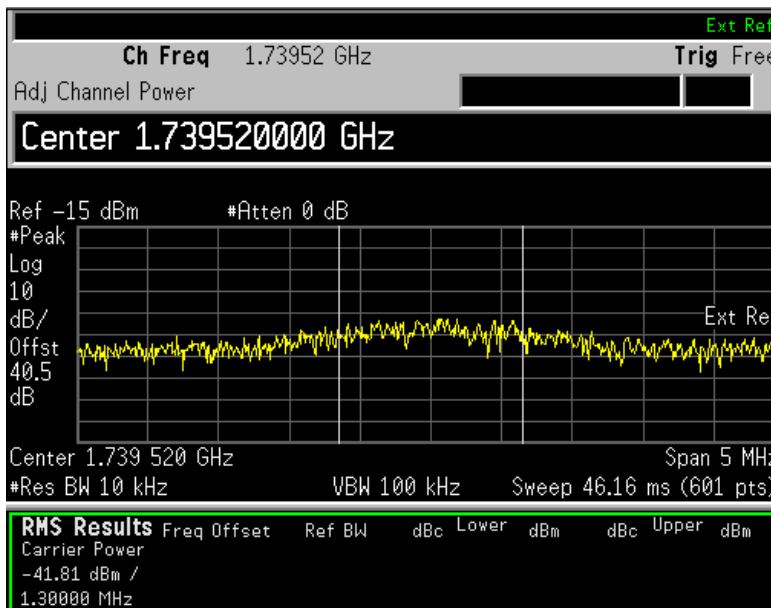
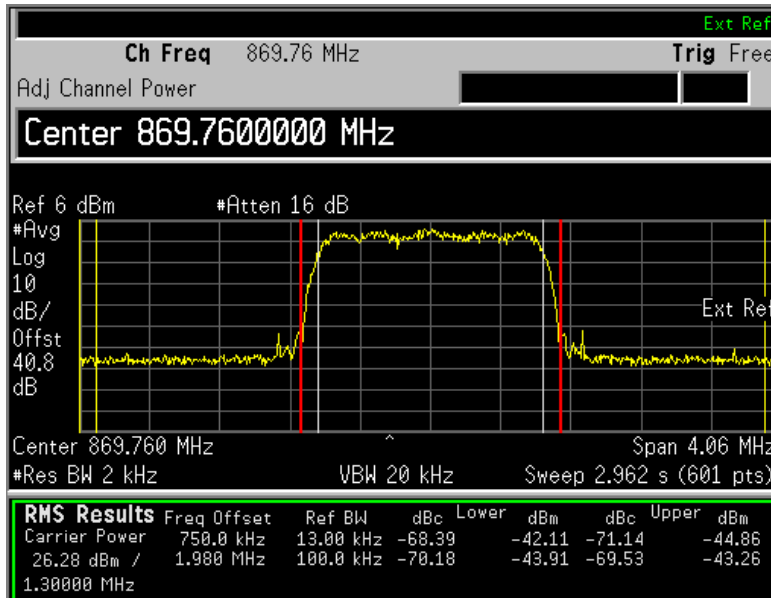
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – .45W Channel 1015 – 869.76 MHz – 8 PSK

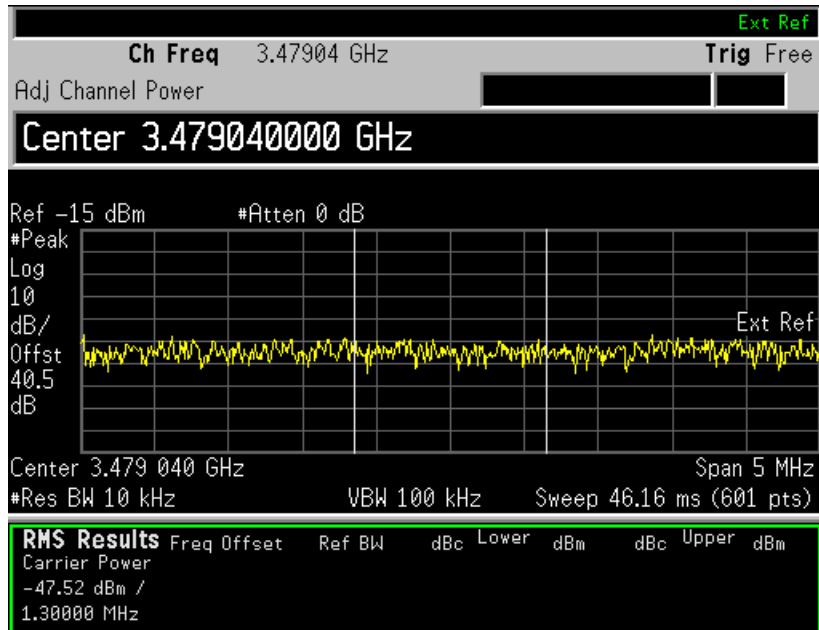
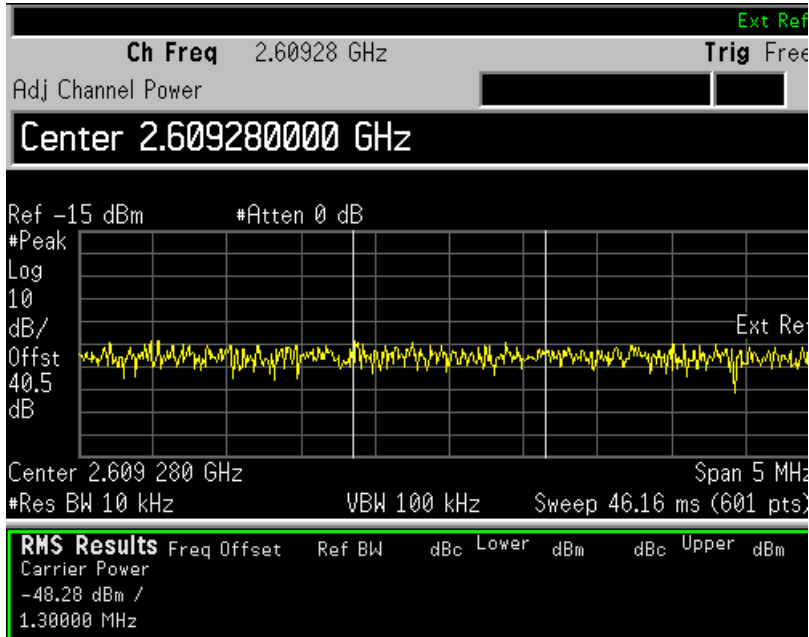




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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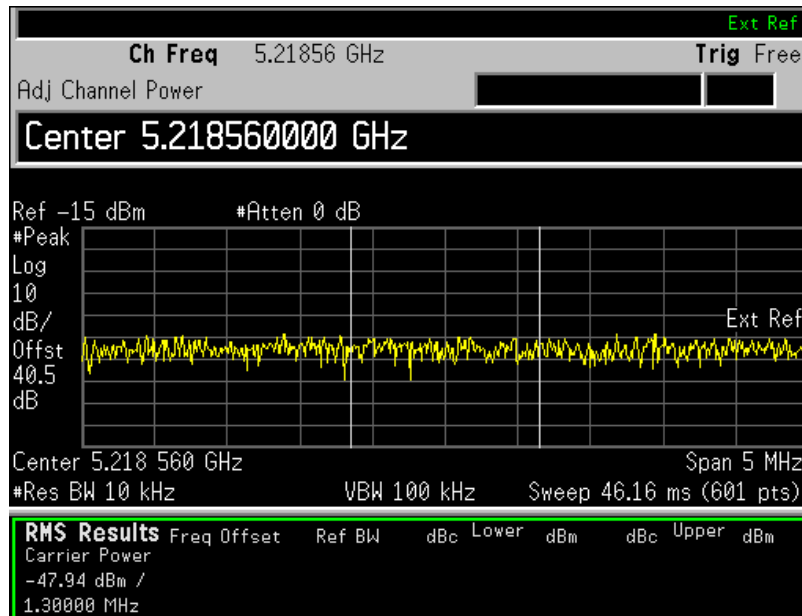
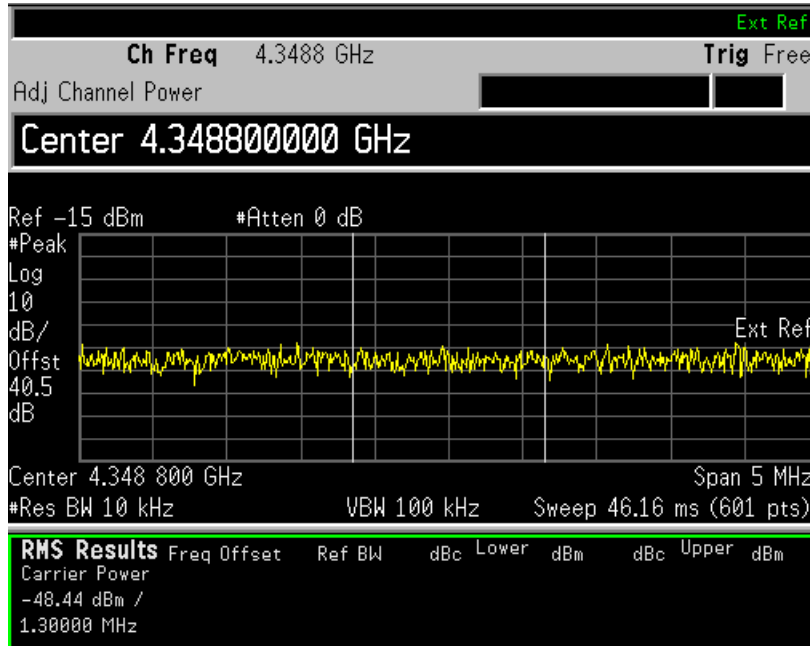




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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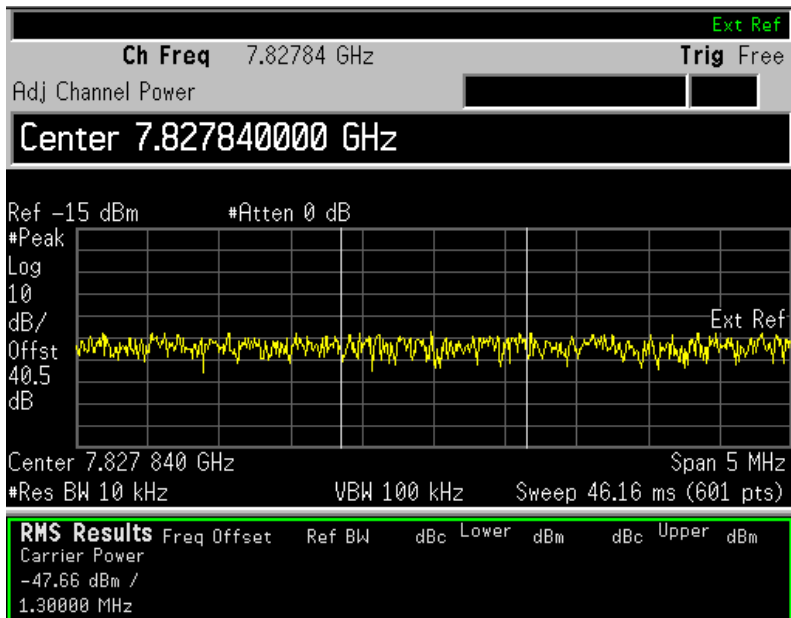
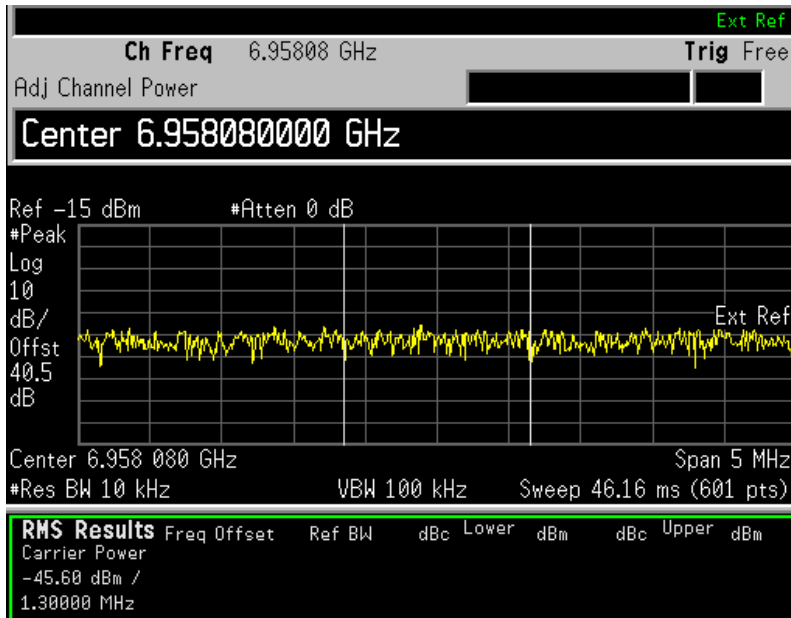




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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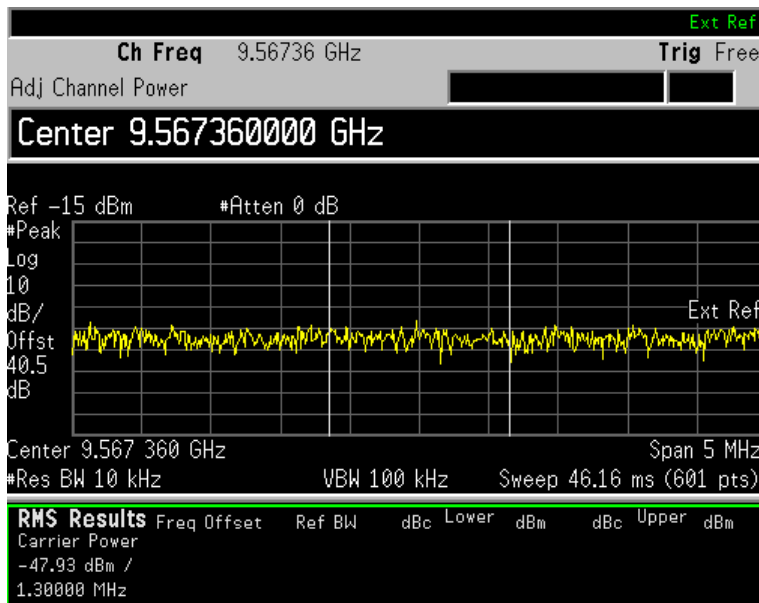
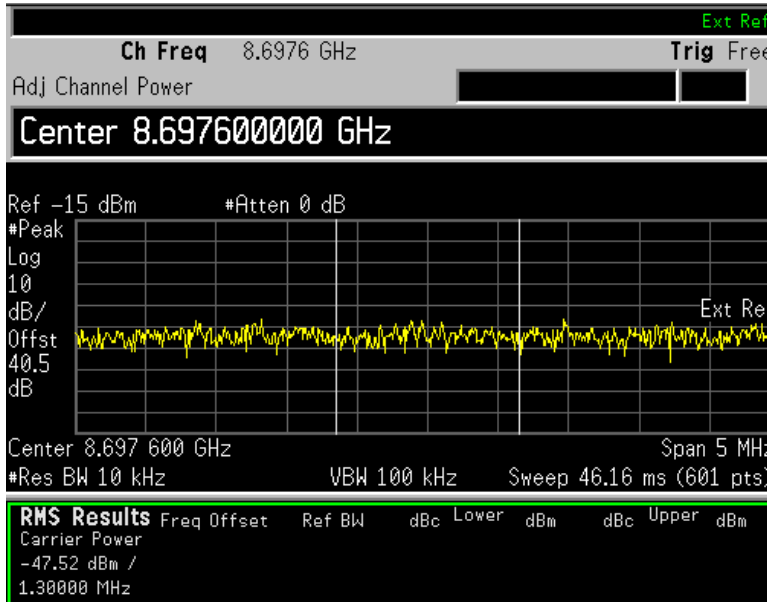




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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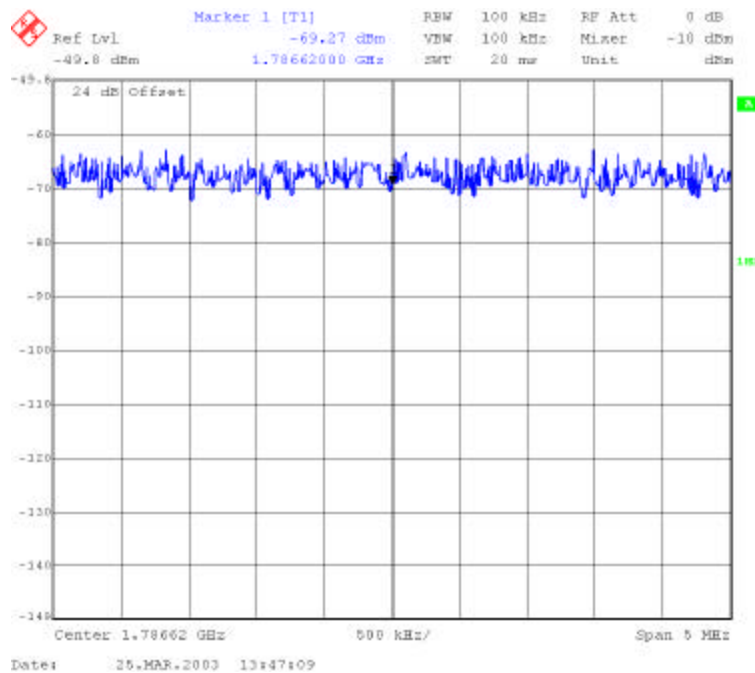
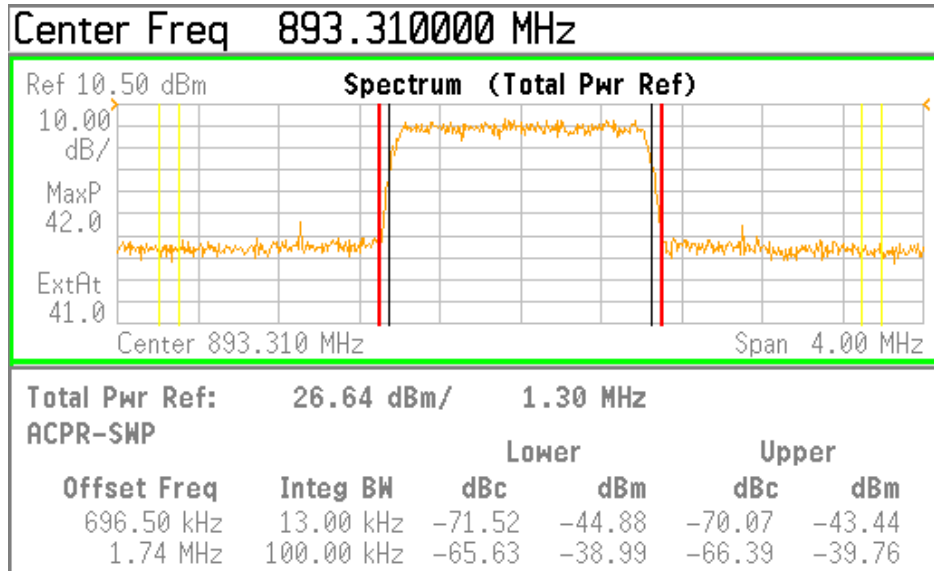
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

FCC ID: IHET5DX1

Spurious Emissions at Antenna Terminal – .45W

Channel 777 – 893.31 MHz

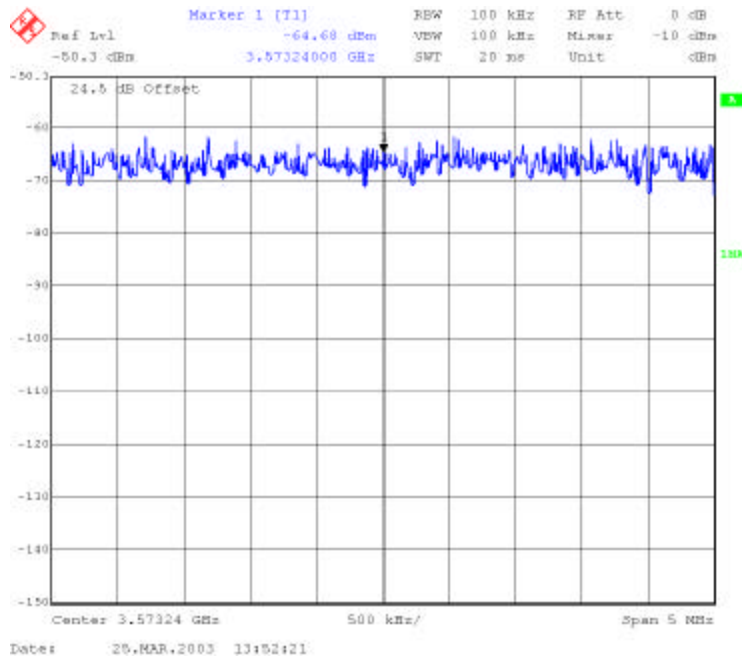
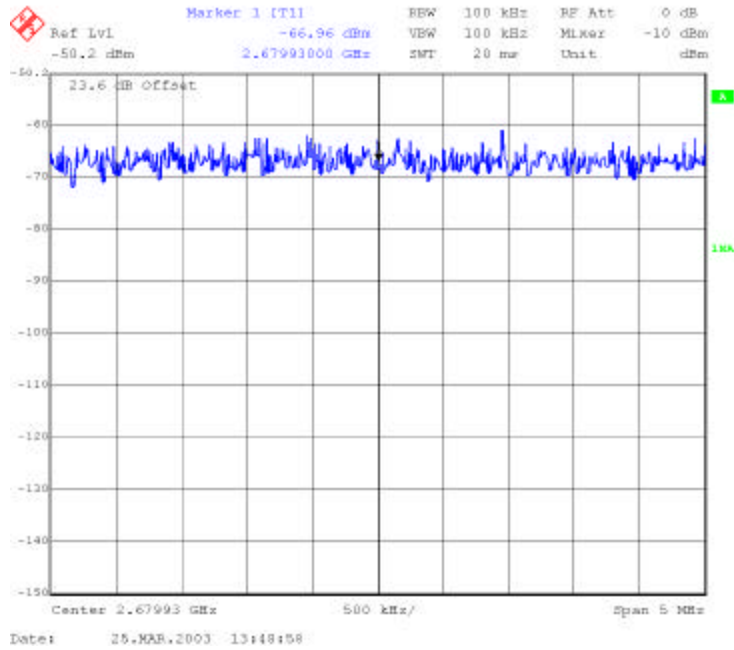




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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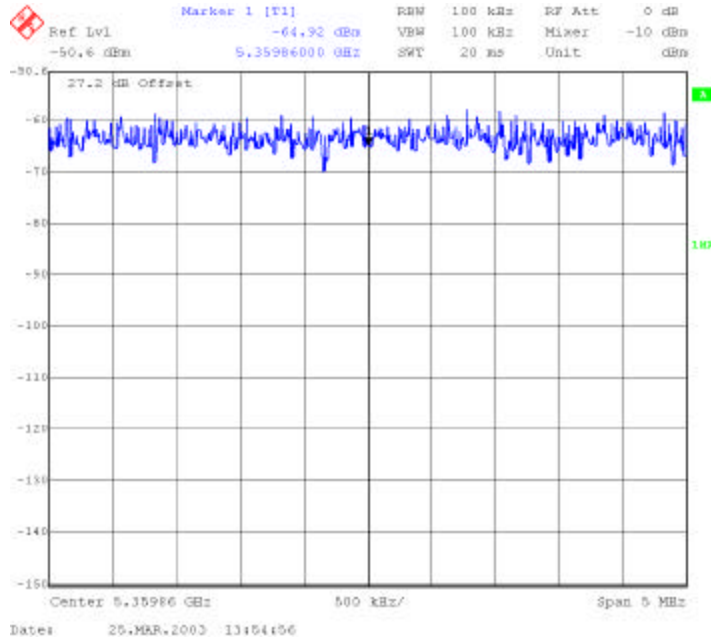
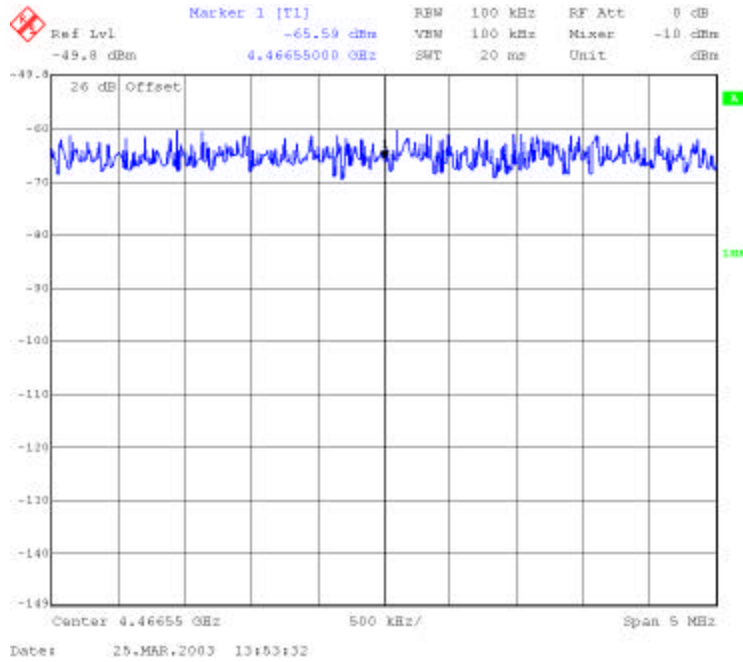




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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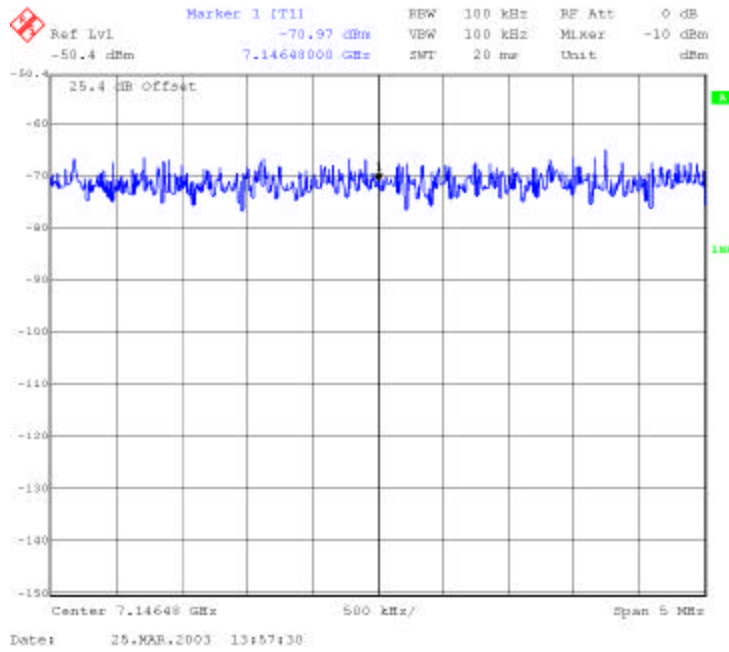
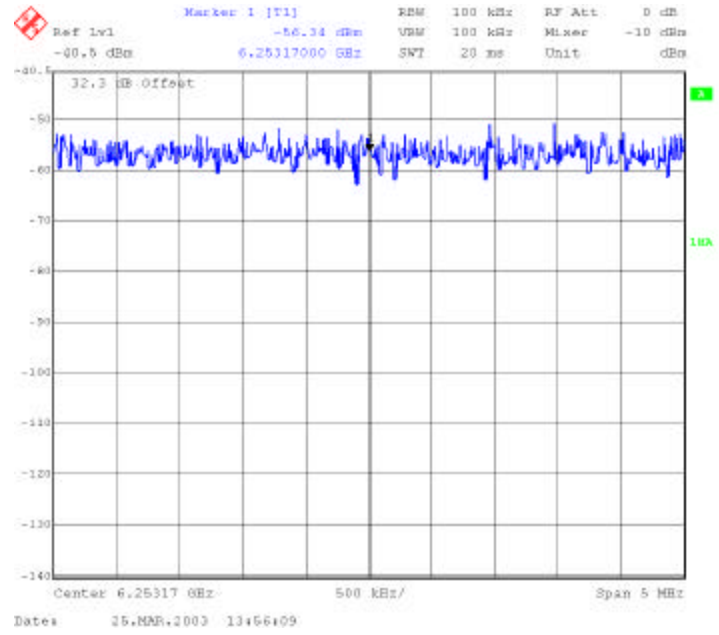




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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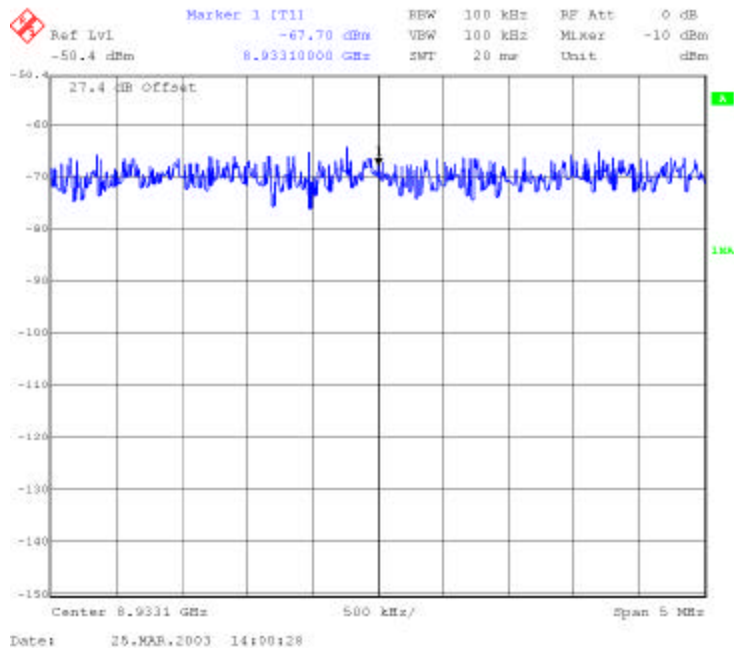
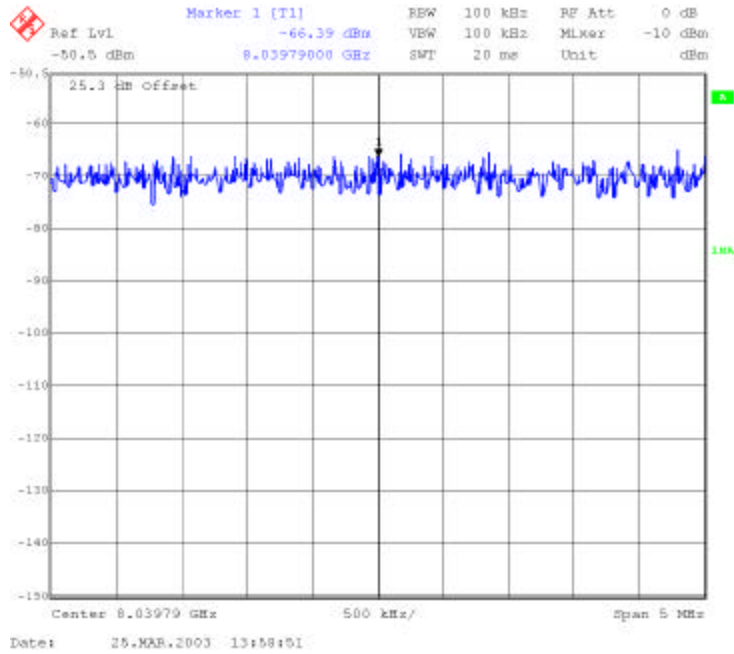




Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS
Test Report Exhibit

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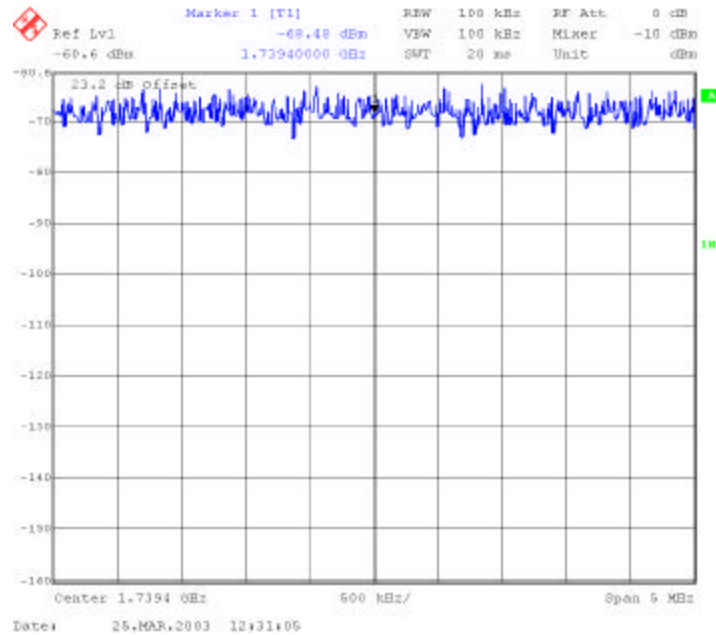
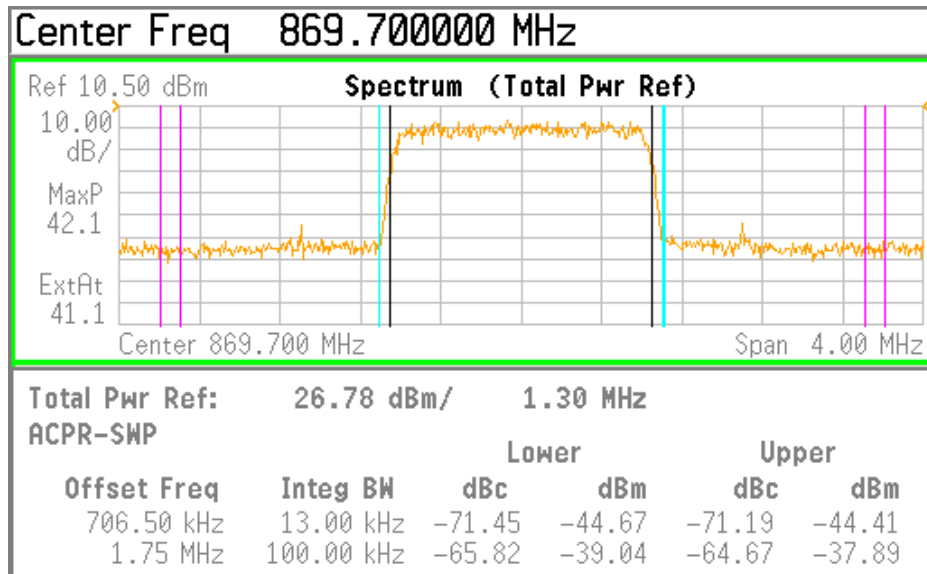
Global Telecom Solutions Sector

SC4812T-MC 1X/1X-DO @ 800 MHz CDMA BTS

FCC ID: IHET5DX1

Test Report Exhibit

Spurious Emissions at Antenna Terminal – .45W Channel 1013 – 869.70 MHz

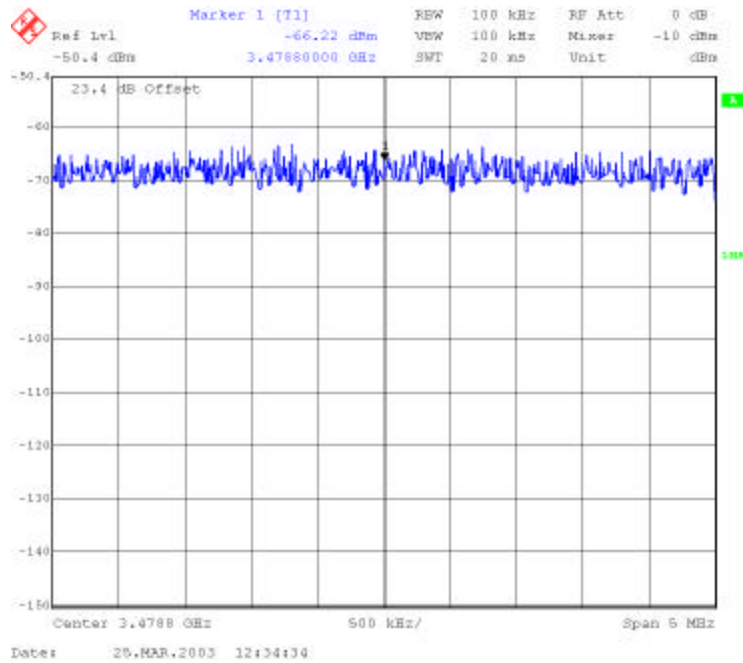
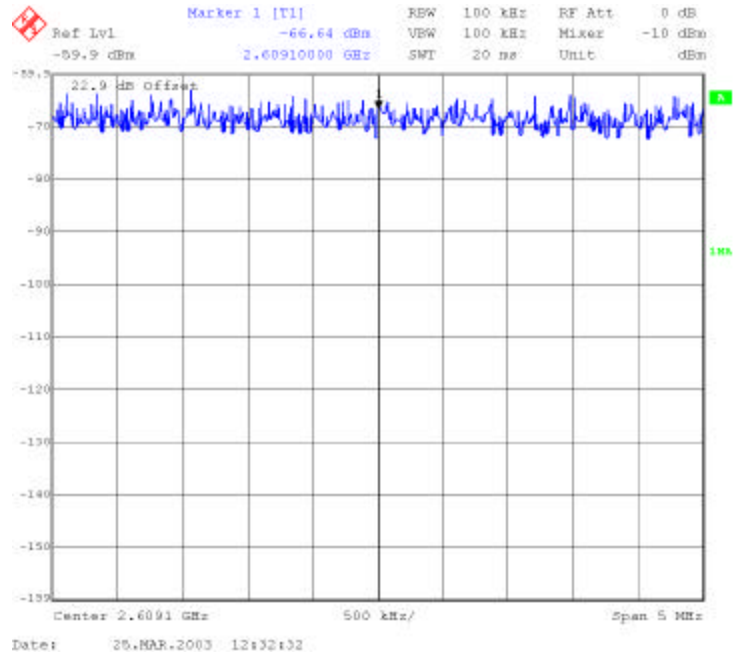




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Test Report Exhibit

FCC ID: IHET5DX1

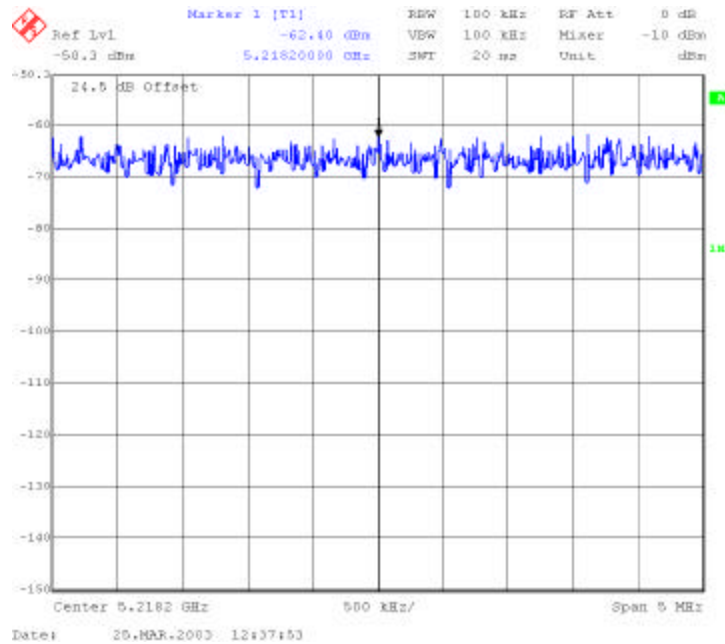
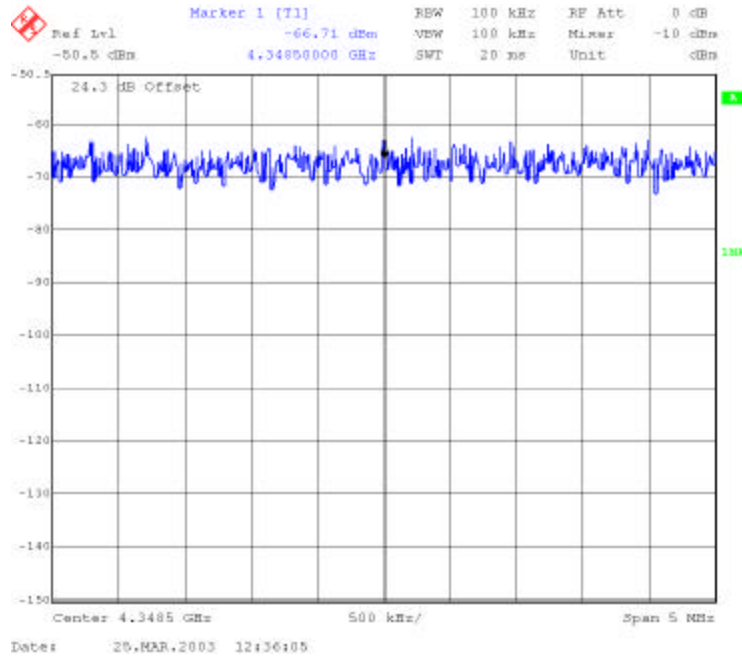




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FCC ID: IHET5DX1

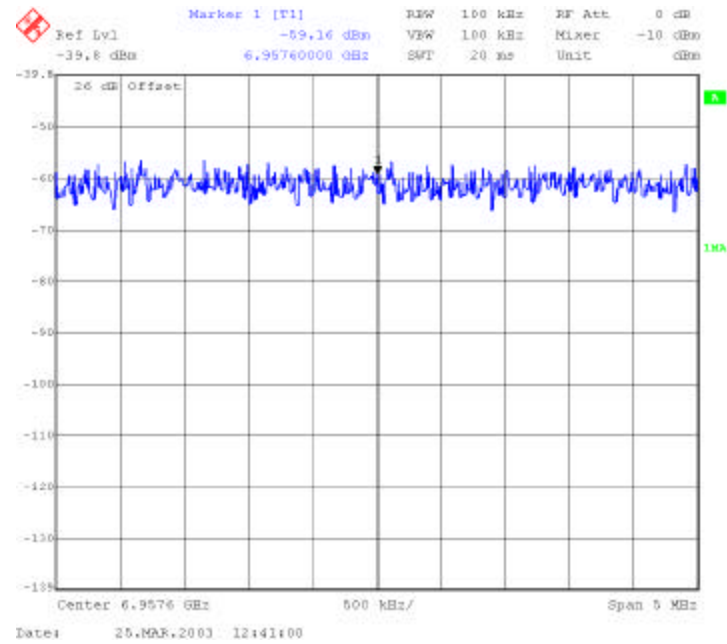
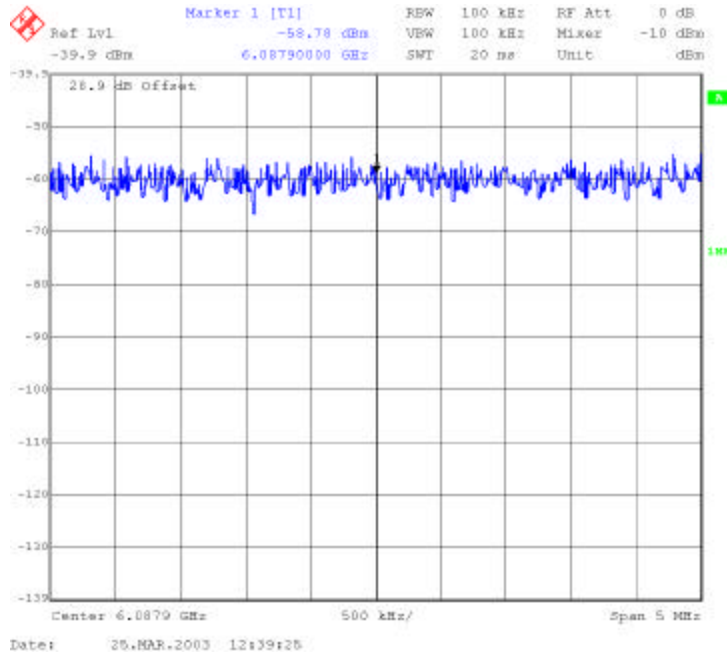




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FCC ID: IHET5DX1

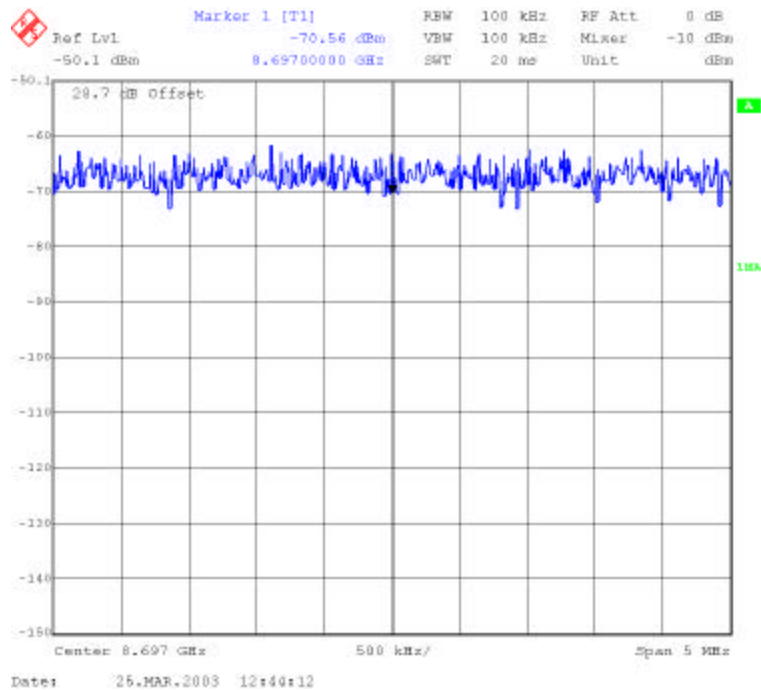
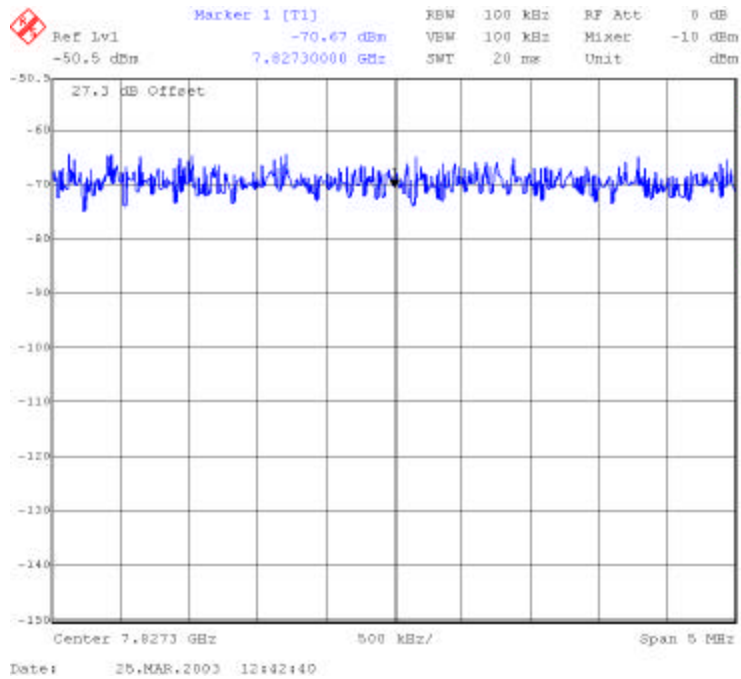




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SECTION E

Field Strength of Spurious Radiation - 47CFR2.1053

Worst case Radiated RF Spur Levels

TRANSMIT CHANNEL	SPUR FREQUENCY (GHz)	MEASURED SIGNAL LEVEL dBuV/meter	MEASURED Signal Level (dBm)	FCC, Part 22 MAX LIMIT (dBm)
775H 775V	2.6793 8.9310	73.90 90.47	-56.10 -57.86	-13 -13
1015H 1015V	8.6991 8.6991	100.54 77.15	-55.18 -57.48	-13 -13
777H 777V	8.9331 8.9331	49.343 54.61	-45.89 -40.62	-13 -13
1013H 1013V	8.697 8.697	56.377 53.91	-38.85 -41.32	-13 -13

Converting dBuV/meter to dBm when Part 22 is done at 3 meters.

1. $(\text{dBuV/M} / 20) * (\text{Inverse Log}) = \text{uV/M}$
2. $\text{Log}(\text{uV/M} / 57735) * 20 = \text{dBm}$

If the test is done at 10 meters, the first formula would remain the same.

The 2nd is as follows $\text{Log}[(\text{uV/m} * 1 / (3 * 57735) / 10)] * 20 \text{ dBm}$



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SECTION F

Frequency Stability - 47CFR2.1055

Mode	27V Power	Worst case DPPM	FCC Requirement	Pass/Fail
CSM1	85-115%	<0.02	+/- 1.5 ppm max	Pass
CSM 2	85-115%	<0.02	+/- 1.5 ppm max	Pass

Mode	Temperature	DPPM	FCC Requirement	Pass/Fail
CSM1	-30 to +50 C	<0.02	+/- 1.5 ppm max	Pass
CSM2	-30 to +50 C	<0.02	+/- 1.5 ppm max	Pass

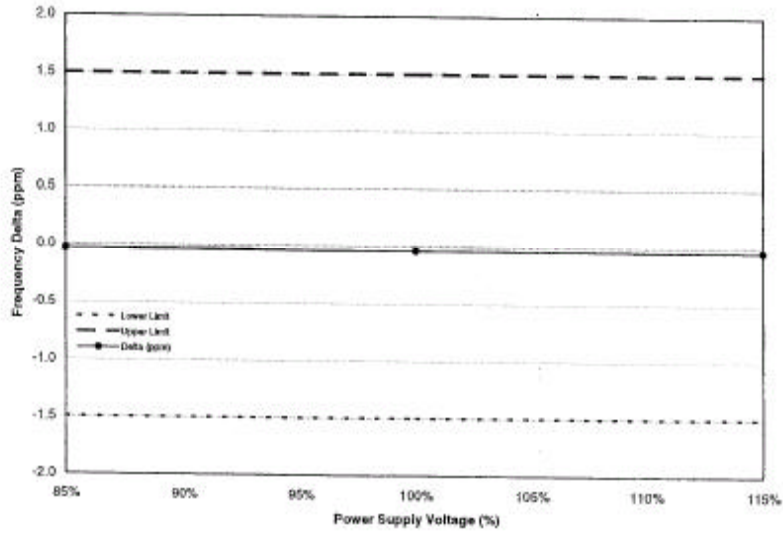


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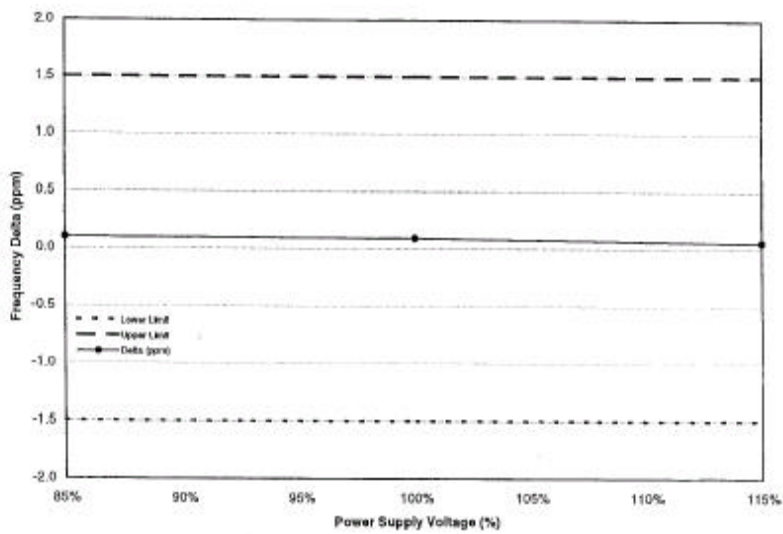
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FCC ID: IHET5DX1

Frequency Stability with Varying Supply Voltage - CSM1



Frequency Stability with Varying Supply Voltage - CSM2



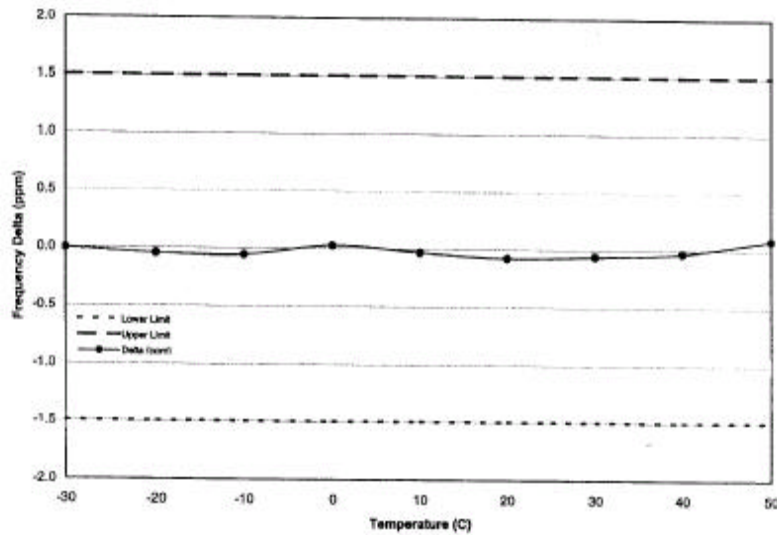


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FCC ID: IHET5DX1

Frequency Stability Over Temperature - CSM1



Frequency Stability Over Temperature - CSM2

